harman/kardon

CDR25
CDR26

Dual Tray CD-R/CD-RW Recorder/Player

SERVICE MANUAL

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CDR 26 TECHNICAL SPECIFICATIONS

Signal Format

Playback Sampling Frequency	44.1kHz
D/A Conversion	96kHz, Multi-Bit Delta-Sigma Conversion
Oversampling	128 Times

Playback Specifications

Frequency Response	2Hz – 20,050Hz
Playback S/N	100dB
Playback Dynamic Range	95dB
Playback THD	0.01%/0dB
Analog Audio Output	2V RMS, ± 2dB
Digital-Coaxial Output	0.5Vpp/75Ω
Headphone Output	1V RMS/32Ω Load

Record Specifications

Digital Input Sample Rates	32kHz – 96kHz
Recording S/N: Analog	80dB
Recording S/N: Digital Dub Mode	Equal to Source
Recording S/N: Digital External Source	Source –10dB
Recording Dynamic Range	90dB
Recording THD	0.01%/0dB
Analog Input Sensitivity	330mV RMS 47kΩ = 0dB
Digital Inputs (Direct Recording)	44.1kHz, ±100 ppm/min.

General

Power Requirement	110~240 VAC/50~60Hz
Power Consumption	20 Watts
Dimensions	
Width	17-5/16"/440mm
Height	4-7/16"/112mm
Depth	13-15/16"/355mm
Weight	13 lb/5.8kg

Depth measurement includes knobs, buttons and connection jacks.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

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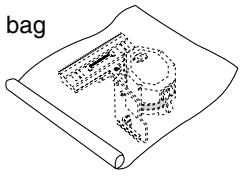
SERVICING PRECAUTIONS

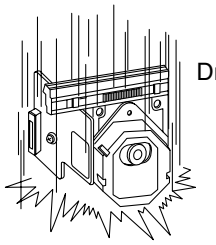
NOTES REGARDING HANDLING OF THE PICK-UP

1. Notes for transport and storage

1) The pick-up should always be left in its conductive bag until immediately prior to use.
2) The pick-up should never be subjected to external pressure or impact.

Storage in conductive bag

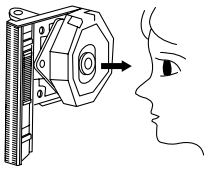




Drop impact

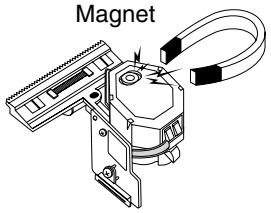
2. Repair notes

1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation
screws should absolutely never be touched.
4) Laser beams may damage the eyes!
Absolutely never permit laser beams to enter the eyes!
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.

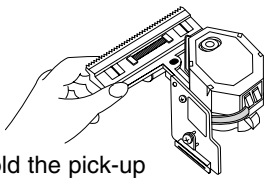


NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

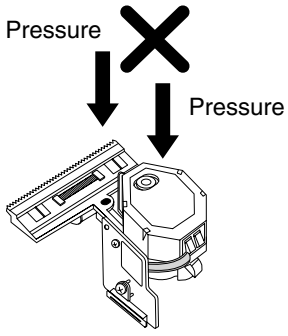
5) Cleaning the lens surface
If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



Magnet

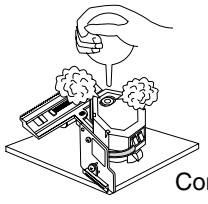


How to hold the pick-up



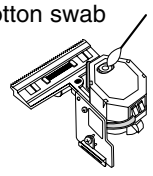
Pressure

Pressure



Conductive Sheet

Cotton swab



6) Never attempt to disassemble the pick-up.
Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

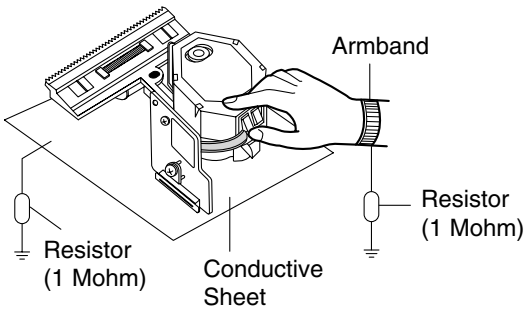
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

1) Before replacing a component part, first disconnect the power supply lead wire from the unit
2) All equipment, measuring instruments and tools must be grounded.
3) The workbench should be covered with a conductive sheet and grounded.
   When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
5) Workers should be grounded by an armband (1MΩ)
6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will by installed.

CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

CDR 26 SPECIAL NOTICE

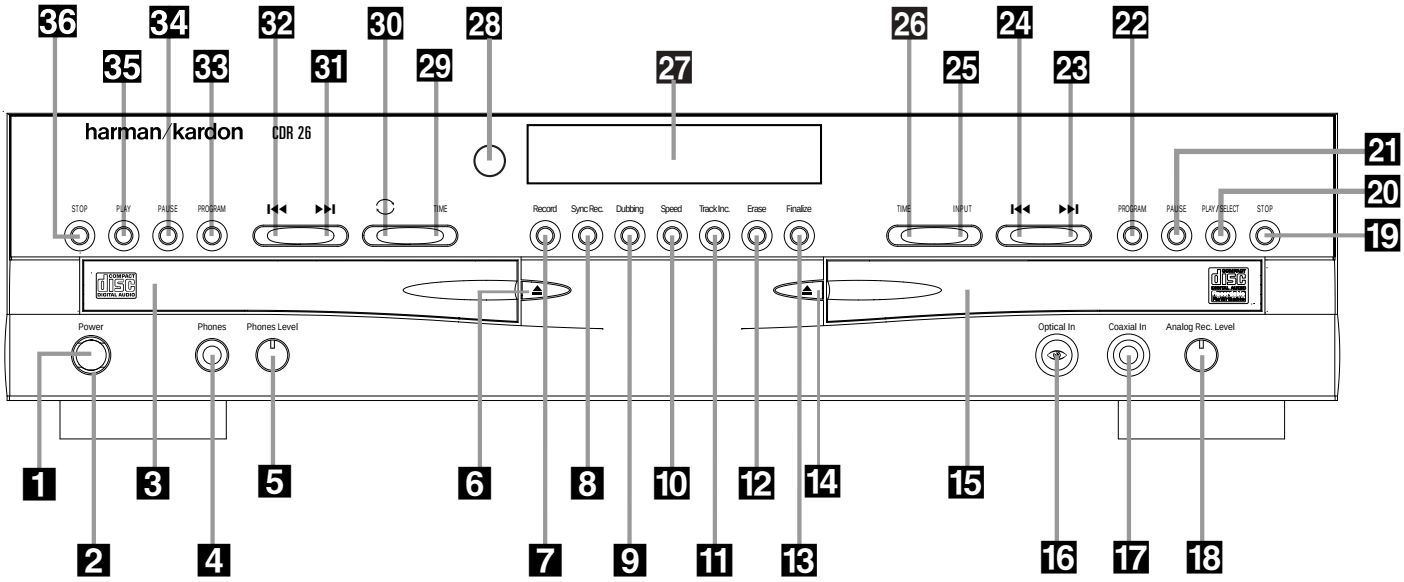
Under certain circumstances, the CDR 26 may operate differently than the description in the owner's manual.

In particular, the unit will not be able to make a digital recording from an external source such as a CD player, DVD player or MiniDisc (MD) player (as shown on page 20 of the owner's manual) when that player blocks a special electrical signal, called "Sub-Q," from the digital output. This signal contains some of the data needed to tell the CDR 26 that the original disc has started playing, and without it the CDR 26 cannot begin a recording.

This is outside of our control, as some manufacturers design products this way to prevent digital copies from being made. Should you find that a digital recording cannot be made from an external playback source, you may always use an analog connection to make the copy by pressing the Input Select Button on the front panel or remote control until *ANALOG* appears in the Information Display.

This does not affect the CDR 26's ability to make high-speed dubs using the unit's own internal playback deck, and in many cases you will not encounter this problem at all, since it is related to the brand of playback deck being used.

FRONT-PANEL CONTROLS



1 Power Switch
2 Status Mode Indicator
3 Play Deck
4 Headphone Jack
5 Headphone Level Control
6 Play-Deck Open
7 Record Button
8 Synchronous Recording (CD Sync) Button
9 Dubbing
10 Speed
11 Track Increment
12 Erase
13 Finalize
14 Record-Deck Open
15 Record Deck
16 Optical Digital Input
17 Coaxial Digital Input
18 Analog-Record Level Control
19 Record-Deck Stop
20 Record-Deck Play/Select
21 Record-Deck Pause
22 Record-Deck Program Button
23 Record-Deck Next
24 Record-Deck Previous
25 Input Select
26 Record-Deck Time Display Select
27 Information Display
28 Remote Sensor
29 Play-Deck Time Display Select
30 Continuous Play
31 Play-Deck Next
32 Play-Deck Previous
33 Play-Deck Program Button
34 Play-Deck Pause
35 Play-Deck Play
36 Play-Deck Stop

1 Power Switch: Press this switch to apply power to the CDR 26. When the unit is first turned on, the Status Mode Indicator **2** surrounding the switch will turn green. Once the unit has been turned on with this switch, it may be operated from either the front panel or remote control. Press the switch again to turn the unit completely off.

2 Status Mode Indicator: When the CDR 26 is in the ON mode, this indicator will glow green. When the unit has been placed in the Standby mode by pressing the Power-Off Button **30** on the remote, the indicator will glow amber, indicating that the unit is still connected to the AC main supply and is ready to be turned on from the remote control.

3 Play Deck: This disc deck is used to play back conventional CD discs and CD-R or CD-RW discs that have been finalized.

4 Headphone Jack: Connect standard headphones to this jack for private listening.

5 Headphone Level Control: Turn this control to adjust the volume level to the headphones. Note that the use of this control will not change the analog output levels at the rear-panel audio output ❶.

6 Play-Deck Open: Press this button to open the Play Deck **3**.

7 Record Button: Press this button to begin the recording process. See pages 19–22 for more information on CD recording.

8 Synchronous Recording (CD Sync) Button: Press this button once to begin an automated recording of a single track from an external CD player when a digital connection is used. Press it twice to begin automated recording of an entire disc. See page 20 for more information on CD Sync recording.

9 Dubbing: Press this button to begin the process of making a complete copy of the disc in the Play Deck **3** to a CD-R or CD-RW disc in the Record Deck **15**. See page 19 for more information on dubbing.

10 Speed: Press this button to select the recording speed for internal dubs. See page 19 for more information on selecting the proper speed.

11 Track Increment: Press this button during recording to insert a new track marker at that point in the recording. The current track number will be incremented by one.

12 Erase: Press this button to erase one or more tracks or the entire contents of an unfinalized CD-RW disc. When a CD-RW disc has already been finalized you may erase the entire disc or you may "unfinalize" the disc by erasing the TOC data. See page 21 for more information on erasing CD-RW discs.

13 Finalize: Press this button when a recording is complete to initiate the finalization process. The Play/Select Button **20** ❿ must be pressed within three seconds to activate finalization. Until this button is pressed and the finalization process is complete, CD-R discs may not be played on conventional CD machines. See page 21 for more information on finalization.

FRONT-PANEL CONTROLS

14 Record-Deck Open: Press this button to open the Record Deck **15**.

15 Record Deck: This disc deck is used to record or play back CD, CD-R and CD-RW discs.

16 Optical Digital Input: This optical digital input may be used to connect a portable digital audio player to the CDR 26 for digital recording. Remove the dust cap before connecting a cable to this jack. Keep the dust cap in a safe place and replace it when the cable is disconnected in order to prevent the possibility of dust getting into the jack and damaging it.

17 Coaxial Digital Input: This coaxial digital input may be used to connect a portable digital audio player to the CDR 26 for digital recording.

18 Analog-Record Level Control: The control is used to adjust the input level when making recordings from analog sources such as cassettes, or when CDs are recorded in an analog mode. See page 21 for more information on record levels.

19 Record-Deck Stop: Press this button to stop the CD in the Record Deck.

20 Record-Deck Play/Select: This button has two functions. It may be pressed when a standard CD is in the Record Deck to put the machine in play, or it may be used to enter a selection or start certain record functions.

21 Record-Deck Pause: When the Record Deck is in the Play mode, pressing this button will pause the disc. If the disc has previously been paused, pressing this button will restart the playback.

22 Record-Deck Program Button: Press this button to begin the programming sequence for the Record Deck. See page 18 for more information on programming playlists on the CDR 26.

23 Record-Deck Next: When a disc is playing in the Record Deck **15**, press and hold this button to play the disc in a fast-forward mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the next track on a disc in play.

24 Record Deck Previous: This button has two functions. When a disc is playing in the Record Deck **15**, press and hold this button to play the disc in a fast reverse mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the beginning of the current track, and the next press will move to the previous track. When a disc is stopped, each press will move back one for programming or play when the disc is stopped. Once a track is entered, it may be played by simply pressing the Play Button **20** **10**.

25 Input Select: Press this button to select the input source (analog or digital) for recording. See page 20 for more information on input selection.

26 Record-Deck Time Display Select: Press this button to cycle through the time display options for the Record Deck. See page 17 for more information on the time display.

27 Information Display: The indicators in the Information Display provide status reports on the operation of the CDR 26. See page 7 for complete explanations of each indicator.

28 Remote Sensor: The IR sensor that receives the commands from the remote control is behind this area. Do not cover or obscure this part of the front panel, to avoid any malfunction with the remote.

29 Play-Deck Time Display Select: Press this button to cycle through the time display options for the Play Deck. See page 17 for more information on the time display.

30 Continuous Play Button: Press this button to place the CDR 26 in Continuous Play mode, which causes it to alternate play between the discs in each deck continuously, so long as the next deck to be played contains a disc and play has not been stopped. To return to the default Single Play mode, in which play stops after the disc in the selected deck has played once, press this button again.

31 Play-Deck Next: When a disc is playing in the Play Deck **3**, press and hold this button to play the disc in a fast-forward mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the next track on a disc in play.

32 Play-Deck Previous: This button has two functions. When a disc is playing in the Play Deck **3**, press and hold this button to play the disc in a fast-reverse mode to quickly locate a desired passage. At any time, tapping the button and quickly releasing it will move to the beginning of the current track, and the next press will move to the previous track. When a disc is stopped, each press will move back one track for programming or play when the disc is stopped. Once a track is entered, it may be played by simply pressing the Play Button **35** **10**.

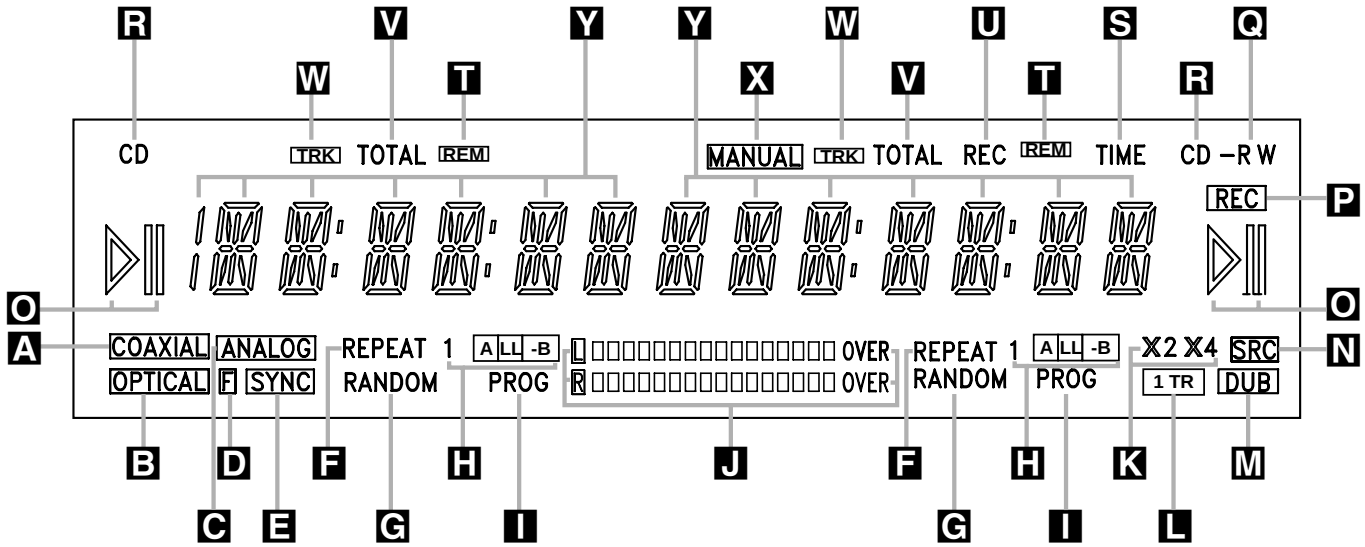
33 Play-Deck Program Button: Press this button to begin the programming sequence for the Play Deck. See page 18 for more information on programming playlists on the CDR 26.

34 Play-Deck Pause: When the Play Deck is running, pressing this button will pause the disc. If the disc has previously been paused, pressing this button will restart the playback.

35 Play-Deck Play: Press this button to begin playback of a CD in the Play Deck or the dubbing process.

36 Play-Deck Stop: Press this button to stop the CD in the Play Deck.

FRONT-PANEL INFORMATION DISPLAY



A Coaxial Digital Indicator
B Optical Digital Indicator
C Analog Indicator
D Front-Panel Input Indicator
E Sync Indicator
F Repeat Indicators
G Random Indicators
H Repeat Status Indicators
I Program Indicators
J Level Indicators
K Speed Indicators
L 1-Track Dubbing Indicator
M Dubbing Indicator
N Sample-Rate Conversion Indicator
O Play/Pause Indicators
P Record Indicator
Q R/RW Indicator
R CD Indicators
S Time Indicators
T Remaining Time Indicators
U Recorded Time Indicator
V Total Time Indicators
W Track Time Indicators
X Manual Indicator
Y Information Displays

Important Note: Since the CDR 26 is a dual-deck player/recorder, there are two separate sets of indicators for the Random, Program, Repeat, Repeat Status, Time, Total Time, Remaining Time and Track Time. In addition, there is a separate Information Display, Play/Pause Indicator and CD Indicator for each deck. As the function of these indicators is identical for both decks, they are described in this manual with a common letter. When the CDR 26 is playing or recording a disc, any indicators that light on the left side of the display describe the status of the Play Deck, while those that light on the right side of the display describe the status of the Record Deck. Depending on the activity of the unit and the settings you select, different indicators may light on the two sides at the same time.

A Coaxial Digital Indicator: This indicator lights when a digital source is being recorded. See page 20 for more information on source selection.

B Optical Digital Indicator: This indicator lights when a digital source connected to one of the optical inputs is being recorded. See page 20 for more information on source selection.

C Analog Indicator: This indicator lights when an analog source is being recorded. See page 20 for more information on source selection.

D Front-Panel Input Indicator: This indicator lights in conjunction with the Coaxial Digital Indicator **A** or the Optical Digital Indicator **B** when either the front-panel coaxial or optical input has been selected. See page 20 for more information on selecting an external source.

E Sync Indicator: This indicator lights when the unit has been programmed for a CD Sync recording. See page 20 for more information on CD Sync recordings.

F Repeat Indicators: These indicators light when a repeat function is being used. See page 18 for more information on repeat play.

G Random Indicators: These indicators light when random playback has been programmed for one of the CD decks. See page 16 for more information on random play.

H Repeat Status Indicators: These indicators display the type of repeat function being used. See page 18 for more information on repeat status.

I Program Indicators: These indicators light when one of the CD decks is being programmed for playback options. See page 18 for more information on programmed play.

J Level Indicators: These LEDs display the input level during an analog recording, and the output level during playback. See page 21 for more information on record levels.

K Speed Indicators: These indicators show which record speed has been selected for dub recordings. See page 19 for more information on record-speed selection.

L 1-Track Dubbing Indicator: This indicator lights when a single track is being dubbed by itself, as opposed to the entire disc or a programmed playlist. See page 19 for more information on dubbing.

M Dubbing Indicator: This indicator lights when a dub is in progress between the two CD decks. See page 19 for more information on CD dubbing.

FRONT-PANEL INFORMATION DISPLAY

N Sample-Rate Conversion Indicator: This indicator lights when the Sample-Rate Converter is in use to change the digital sample rate when the incoming signal is not the standard 44.1kHz used by standard CDs. This is an automatic function and does not require any user intervention.

O Play/Pause Indicators: These indicators show the status of the individual CD decks. The ▶ lights when the CD is playing, and the ▶❙❙ lights when the unit is in a Pause mode.

P Record Indicator: This indicator lights while the unit is making a recording and flashes during the preparations for recording.

Q R/RW Indicator: This indicator shows which type of recordable disc is present in the Record Deck **15**. When a CD-R disc is present, only the R is lit. The RW lights when an erasable CD-RW disc is in use.

R CD Indicators: These indicators light when a standard CD is playing in either deck **3** or **15**.

S Time Indicators: These indicators light in conjunction with one of the time indicators **T U V W** to show which of the time status modes is active.

T Remaining Time Indicators: These indicators light when the Information Display **Y** shows the time remaining on a disc.

U Recorded-Time Indicator: While a recording is in progress, and up until a CD-R or CD-RW disc in the Record Deck **15** has been finalized, this indicator will light, and the Information Display **Y** will indicate the total amount of time recorded on the disc thus far.

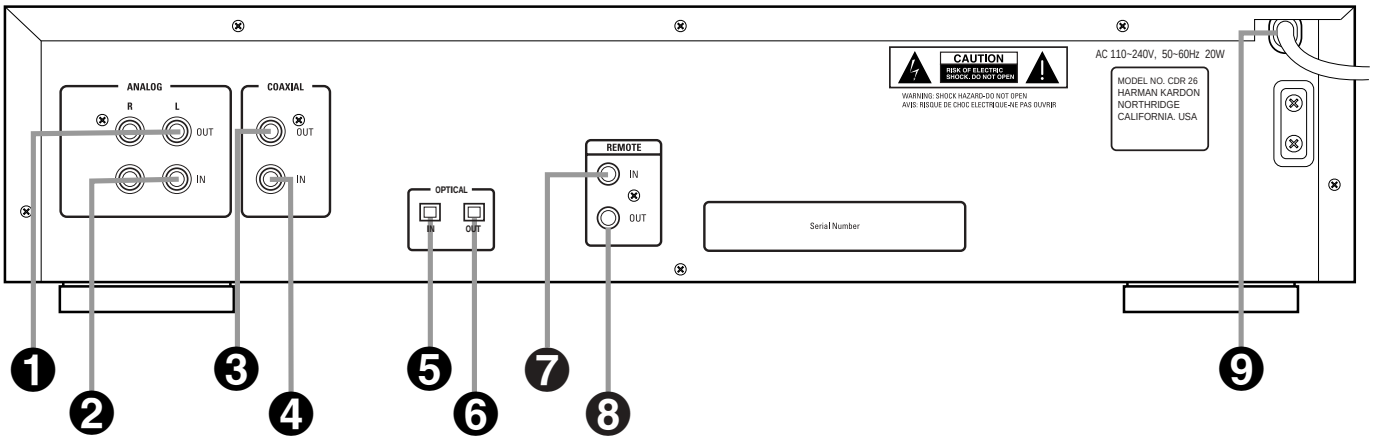
V Total Time Indicators: These indicators light when the Information Display **Y** shows the total time of all tracks on a disc.

W Track Time Indicators: These indicators light when the Information Display **Y** shows the running time of the individual track being played.

X Manual Indicator: This indicator lights when the manual method of incrementing tracks is selected for a recording session. See page 20 for more information on track increments.

Y Information Displays: These displays serve two functions, showing the time displays for discs playing, and displaying messages about discs or recordings.

REAR-PANEL CONNECTIONS



❶ Analog Output
❷ Analog Input
❸ Coaxial-Digital Output
❹ Coaxial-Digital Input
❺ Optical-Digital Input
❻ Optical-Digital Output
❼ Remote IR Input
❽ Remote IR Output
❾ AC Power Cord

❶ Analog Output: These jacks carry the analog audio output signal from the deck currently playing. Connect them to the Tape Play/In input jacks on a receiver, preamp or processor.

❷ Analog Input: These jacks accept the analog signals that are used for CD recordings. Connect them to the Tape Rec/Play outputs on a receiver, preamp or processor.

❸ Coaxial-Digital Output: This jack carries the digital-audio output signal from the deck currently playing. Connect it to a coaxial-digital input on a receiver, processor or digital decoder.

❹ Coaxial-Digital Input: This jack accepts the digital-audio input signal from a compatible digital audio product and should be connected directly to a digital player or to a coaxial-digital output on a CD or DVD player or an A/V receiver or processor.

IMPORTANT NOTE: The coaxial digital input should only be connected to digital input or output jacks. Even though it uses the same RCA-type connector as standard analog audio connections, DO NOT connect it to conventional analog input or output jacks.

❺ Optical-Digital Input: This jack accepts the digital-audio input signal from a compatible digital audio product, and should be connected to the optical-digital output on a CD or DVD player or an A/V receiver or processor.

❻ Optical-Digital Output: This jack carries the optical digital output signal from the deck currently playing. Connect it to an optical digital input on a receiver, processor or digital recorder.

❼ Remote IR Input: Connect the output of a remote infrared sensor or the remote control output of another compatible Harman Kardon product to this jack. This will enable the remote control to operate even when the front-panel Remote Sensor 28 is blocked. This jack may also be used with compatible IR remote control-based automation systems.

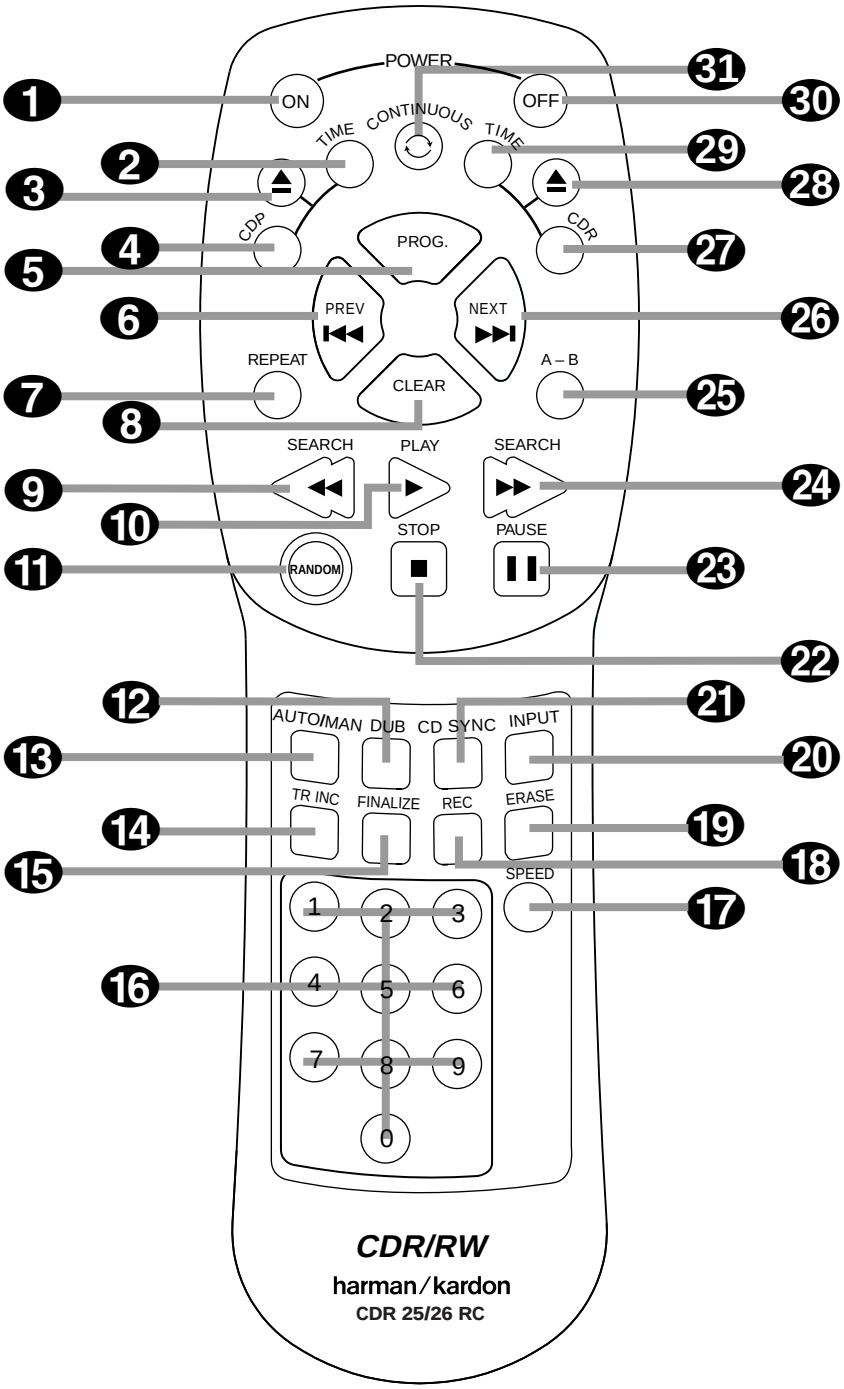
❽ Remote IR Output: Connect this jack to the IR input jack of another compatible Harman Kardon remote-controlled product to have the built-in Remote Sensor 28 on the CDR 26 provide IR signals to other compatible products.

❾ AC Power Cord: Connect this plug to an AC outlet. If the outlet is switch-controlled, make certain that it is in the ON position.

REMOTE CONTROL FUNCTIONS

1. Power On
2. Play Deck (CDP) Time Display Control
3. Play Deck (CDP) Open
4. Play Deck (CDP) Select
5. Program
6. Previous-Track Skip
7. Repeat
8. Clear
9. Reverse Search
10. Play
11. Random Play
12. Dub
13. Automatic/Manual Track Increment Selector
14. Track Increment
15. Finalize
16. Numeric Keys
17. Speed Select
18. Record Button
19. Erase Button
20. Input Select
21. CD Sync
22. Stop
23. Pause
24. Forward Search
25. A-B Repeat
26. Next Track/Skip
27. Record Deck (CDR) Select
28. Record Deck (CDR) Open
29. Record Deck (CDR) Time Display Control
30. Power Off
31. Continuous Play

IMPORTANT NOTE: Some of the remote's functions, including Play, Pause, Stop, Search, Next and Previous Track, are shared between the two decks. Always remember to press the **CDP Select Button** 4 to use the remote to control the Play Deck, or press the **CDR Select Button** 27 to control the Record Deck. When you press one of these buttons, an indication of CDP or CDR will appear in the appropriate **Information Display** Y.



REMOTE CONTROL FUNCTIONS

❶ Power-On Button: Press this button to turn the CDR 26 on. Note that in order for this control to function, the front-panel Power Switch 1 must first be pressed so that the unit is in the Standby mode.

❷ Play Deck (CDP) Time Display Control: Press this button to cycle through the various time display options for the disc in the Play Deck 3. See page 17 for more information on time-display options.

❸ Play Deck (CDP) Open: Press this button to open the Play Deck 3.

❹ Play Deck (CDP) Select: Press this button to control or program the functions of the disc in the Play Deck 3.

❺ Program: Press this button to begin the programming sequence for one of the CD decks. See page 18 for more information on programming playlists on the CDR 26.

❻ Previous-Track Skip: Press this button to skip backwards to the beginning of the track currently being played. Press it a second time to move back to the beginning of each previous track.

❼ Repeat: Press this button once to repeat the current track. To repeat an entire disc, press the button twice.

❽ Clear: Press this button to clear an item in a program sequence. See page 18 for more information.

❾ Reverse Search: Press this button to play the selected disc in reverse to locate a desired passage.

❿ Play: This button has two functions. It will most often be used as a standard play button, but when setting up certain record functions, it is also used as an Enter or Select button.

⓫ Random Play: When the CD deck is stopped, press this button to begin random play of all tracks on a disc.

⓬ Dub: Press this button to begin a dub. See page 19 for more information on dubbing.

⓭ Automatic/Manual Track Increment Selector: Press this button to select between automatic and manual track incrementing during a recording session. See page 20 for more information on track incrementing.

⓮ Track Increment: When the Manual mode for track incrementing is selected during recording, press this button to increase the track number. NOTE: This function does not operate during CD Sync or dub recording.

⓯ Finalize: Press this button when a recording is complete to initiate the finalization process. The Play/Select Button 20 ❿ must be pressed within three seconds to activate finalization. Until this button is pressed and the finalization process is complete, CD-R or CD-RW discs may not be played on conventional CD machines. See page 21 for more information on finalization.

⓰ Numeric Keys: Press these buttons to access a specific track for playback or during the programming process. See page 18 for more information on programmed playback.

⓱ Speed Select: Press this button to select the recording speed for internal dubs. See page 19 for more information on selecting the proper speed.

⓲ Record Button: Press this button to begin a manual recording.

⓳ Erase Button: Press this button to initiate the erasure of a track or of an entire CD-RW disc or to unfinalize a disc. Erasure is only possible on CD-RW discs. See page 21 for more information on erasing discs.

⓴ Input Select: Press this button to select the input source (analog or coaxial- or optical-digital) for recording. See page 20 for more information on input selection.

㉑ CD Sync: Press this button once to begin an automated recording of a single track from an external CD player when a digital connection is used. Press it twice to begin automated recording of an entire disc. See page 20 for more information on CD Sync recording.

㉒ Stop: Press this button to stop playback or recording.

㉓ Pause: Press this button to momentarily pause playback. Press it again to resume playback.

㉔ Forward Search: Press this button to play a disc in fast-forward mode.

㉕ A-B Repeat: Press this button to specify a segment of a disc for repeat play. See page 18 for more information on repeat play.

㉖ Next Track/Skip: Press this button to skip forward to the next track on a disc.

㉗ Record Deck (CDR) Select: Press this button to control or program the functions of the disc in the Record Deck 15.

㉘ Record Deck (CDR) Open: Press this button to open the Record Deck 15.

㉙ Record Deck (CDR) Time Display Control: Press this button to cycle through the various time-display options for the disc in the Record Deck 15. See page 17 for more information on time-display options.

㉚ Power Off: Press this button to place the unit in a Standby mode.

㉛ Continuous Play Button: Press this button to place the CDR 26 in the Continuous Play mode. In that mode, the unit will play all tracks on the disc in one tray, switch to the second tray and play all tracks, and then continuously alternate between the two discs until the unit is stopped or the button is pressed again to return to the Single Play mode.

INSTALLATION AND CONNECTIONS

Important Note: To prevent possible damage to your speakers or other components in your audio system, we strongly recommend that ALL system components, including the CDR 26, be turned off and unplugged from their AC power source when any connections are made or a new component is installed.

Placement of the CDR 26

Since the CD transports in the CDR 26 are precision instruments, they are subject to interference from vibration. To minimize the possibility of skipping during playback or recording, it is recommended that the unit be placed on a level, solid, vibration-free surface.

When installing the CDR 26 in a cabinet or tight space, always make certain that there is enough room in front of the unit for the disc drawers to open fully, and that there is enough space above the unit so that discs may easily be inserted in the disc drawers.

In addition to the safety considerations outlined on page 4, it is also recommended that the CDR 26 not be placed in a location that is subject to direct sunlight or extreme heat or cold, as these conditions may damage the discs used in the player, or the player itself. Note that audio amplifiers or high-power receivers, as well as certain other electronic products, may generate significant heat. For that reason, do not place the CDR 26 directly on top of an amplifier, receiver or other heat source. Always allow at least one inch of free space on all sides of the CDR 26, as well as other electronic products, to allow for proper ventilation.

The unit should also be kept away from sources of water or damp conditions.

Connections to Your Audio System

When connecting the CDR 26, think of the process as if you were connecting a standard tape or cassette recorder, with the addition of the digital connections.

Depending on the capabilities of your receiver, preamp or processor, you may find it convenient to connect the analog inputs and outputs to the jacks marked for a tape recorder. As the CDR 26's functions resemble those of a standard tape recorder, this may make it easier to select it as an input on your receiver or pre-amp. Connect the Analog Output Jacks ❶ to the Play/In jacks of a Tape or Aux input on your receiver or preamp. Connect the Analog Input Jacks ❷ to the Tape Rec/Out jacks on your receiver or preamp.

To play the output through the digital decoder in your receiver or an external processor, connect the Coaxial-Digital Output Jack ❸ or the Optical-Digital Output Jack ❻ to the matching digital-input jack on your receiver or processor. You may have to change a setting on the receiver or processor to link the digital input to the "Tape" button or the specific input selector associated with the digital inputs. Consult the owner's manual on your receiver or processor for details, as this configuration may vary from unit to unit.

To make recordings from external digital sources, such as a CD, DVD or MD player, connect the Coaxial-Digital Input Jacks 17❹ or Optical-Digital Input Jacks 16❺ on the CDR 26 to the digital output jacks on your receiver or processor. If your receiver does not have digital-output jacks, you may connect the Coaxial-Digital Input Jacks 17❹ or Optical-Digital Input Jacks 16❺ on the CDR 26 directly to the digital outputs on your CD player or other digital device.

Connections to a portable digital CD or MD player may also be made by connecting the Coax or Optical Digital Output of the player to one of the front-panel Digital Inputs 16 17 on the CDR 26.

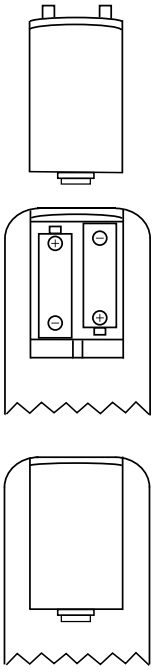
IMPORTANT NOTE ON DIGITAL CONNECTIONS:

Although digital-coax connections use the same type of "RCA" phono jack as standard analog signals, please take special care to connect digital signals only to digital jacks. In many cases, the digital jacks may be identified by an orange-colored insert ring around the center of the jack. When making digital connections, be sure to use coax-interconnect cables, such as the one supplied with the CDR 26 or cables intended for video applications. Even though they have the correct type of RCA connector, do not use audio-interconnect cables that have twisted-pair construction, as they are not appropriate for digital signal use. If you have any questions about the type of cables to use with the CDR 26, consult your dealer.

INSTALLATION AND CONNECTIONS

Batteries

Insert the two AA batteries supplied with the CDR 26's remote by turning the remote over so that the bottom of the remote is facing towards you. Gently lift the plastic tab on the battery cover up and away from you, and lift the lid off. Insert the batteries in the remote, being careful to follow the + and – polarity indications in the bottom of the compartment. Replace the cover by first seating the two small tabs into the mating holes at the top of the remote, and then gently push the cover down until the latch snaps into place with an audible click.



NOTE: When replacing batteries, it is always a good idea to replace both at the same time. When the remote will not be used for an extended period of time, it is also a good idea to remove the batteries to avoid the possibility of damage due to corrosion. Batteries contain chemical substances and we recommend that you dispose of them properly and in compliance with any local regulations.

IR Remote Connections

If the CDR 26 is installed behind a cabinet or other obstruction that may block the path between the front-panel Remote Sensor 28 and the location where you will use the remote, an optional external IR sensor may be used. Connect the sensor to the Remote IR In Jack 7 on the rear panel. This jack may also be connected to the IR Output jack of another compatible Harman Kardon component or a compatible IR system remote product.

You may also use the IR sensor in the CDR 26 to send commands to other compatible remote products. Connect the Remote IR Out Jack 8 to the input of the other product or system.

Power Connections

Connect the AC Power Cord 9 to an AC power source. The CDR 26 uses sensitive, high-performance computer-grade CD drives, and to protect them we recommend that you consider the use of a surge protector, just as you would for a computer.

If the rear-panel AC outlet on a receiver or other product is used, make certain that the total power of all products connected does not exceed the maximum rated output of the product containing the outlets. If the CDR 26 is connected to a switched outlet, remember to turn on the outlet or product controlling it in order for the CDR 26 to operate.

TROUBLESHOOTING GUIDE AND ERROR MESSAGES

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Unit does not operate when Standby switch or remote Power-On is pressed	• No AC power • Main Power Switch is off	• Make certain AC power cord is plugged into a live outlet • Check to see whether AC outlet is switch-controlled • Turn on Main Power
Remote does not function	• Wrong deck selected • Dead batteries • Sensor blocked	• Press the CDP Button 4 to control the Play Deck 3; press the CDR Button 27 to control the Record Deck 15 • Replace both batteries • Remove obstructions from front panel or connect a remote sensor to the Remote-In Jack
Disc does not erase	• CD-R disc in use	• CD-R discs do not erase; only CD-RW discs may be erased
Recorded CD-R disc does not play in another CD player or DISC ERROR message appears in play deck	• CD-R disc not finalized	• Finalize the CD-R disc in the CDR 26's record deck (see page 21)
Recording suddenly stops	• Input source stopped or paused	• Recordings will stop when the input source is paused for more than three seconds for digital recordings and 10 seconds for analog recordings

ERROR MESSAGES

MESSAGE	EXPLANATION AND PROBABLE CAUSE	SOLUTION
CHECK DISC	• A record-related button has been pressed when a finalized disc is in the Record Deck 15 • A record-related button has been pressed when a standard CD is in the Record Deck 15	• Unfinalize the disc to add tracks to a CD-RW disc • Replace the disc with a blank CD-R or CD-RW disc • Replace the disc with a blank CD-R or CD-RW disc
DATA DISC	• A non-audio CD-ROM or a CD Video disc has been placed in the machine	• Only CD Audio and DTS® discs will play in the CDR 26; replace the disc
DISC ERROR	• An unfinalized disc has been placed in the Play Deck 3 • A DVD has been placed in the unit	• Finalize the disc (see page 21) • Replace the disc; the CDR 26 does not play or dub DVDs
DISC FULL	• There are only four seconds of record time remaining on the disc being recorded	• Use another blank CD-R or CD-RW disc • Erase one or more tracks on a CD-RW disc
ERROR	• The disc is not seated properly • There is a problem with the disc	• Open the drawer and check to see that the disc is properly seated • Try another disc
FAILED	• A dub has not been completed properly	• Check the play disc • Repeat the dub process
FULL	• More than 99 tracks have been recorded	• The CDR 26 does not record more than 99 tracks on a disc
NO AUDIO	• A record-related button has been pressed when a non-audio disc is in the Record Deck 15	• Replace the disc with a blank CD-R or CD-RW Audio disc
SVC-1	• There is an internal problem with the CDR 26	• Contact an authorized Harman Kardon service center

harman/kardon Service Bulletin

Service bulletin # H/K2003-03 April 2003 Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Model: CDR25/CDR26

Subject: Improve Audible Noise

In the event you receive a CDR25 or CDR26 with the complaint: "there is a whining, whirring or squealing sound coming from the Record deck, when dubbing, recording, or playing a CD", follow the instructions below:

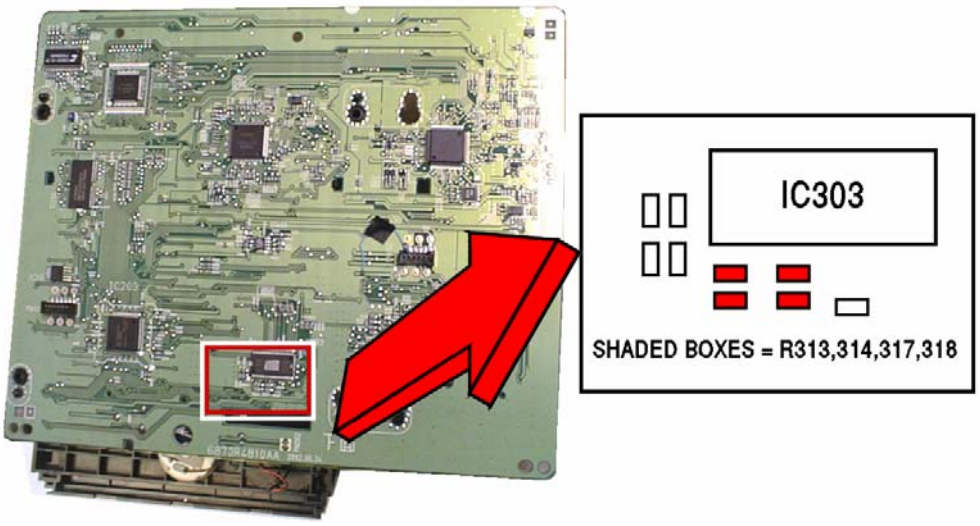
Synopsis: Change resistors R313, R314, R317, R318 from 2.2Ω to 3.3Ω.

Procedure:

1) Power the unit ON and press the EJECT button to open the tray on the RECORD side.
2) Supporting the tray, carefully remove the gray drawer faceplate by lifting it up and out of the groove.
3) Press EJECT button again to retract the tray back into the unit.
4) Turn the unit OFF, unplug AC line cord.

CAUTION: FOLLOW PROPER STATIC CONTROL PROCEDURES TO PREVENT DAMAGE TO THE CDR25/26.

5) Remove the top cover (7 Phillips screws).
6) Remove the six connector cables/plugs on the Main PCB: PN501,503,401,403,405,406.
7) Remove the six plated Phillips screws holding the Main PCB/Record Ass'y to the bottom chassis.
8) Lift the entire Main PCB/Record Ass'y out of the unit; turn upside-down.
9) Locate and replace 2.2 Ω SMD resistors R313, R314, R317, R318 with 3.3Ω parts, h/k part# 260-3.3.
10) Replace Main PCB/Record Ass'y; replace connectors PN501,503,401,403,405,406.
11) Plug in unit; turn ON. Eject the Record tray; replace the tray faceplate. Test the unit.



MODELS	SERIAL NUMBER	STATUS	ACTION
CDR25	LG0010-01000 - LG0010-02585	May need modification	Replace R313, R314, R317, R318
	LG0010-02586 and above	Modified by Factory	NONE REQUIRED
CDR26	LG0009-01000 - LG0009-07050	May need modification	Replace R313, R314, R317, R318
	LG0009-07051 and above	Modified by Factory	NONE REQUIRED

harman/kardon Service Bulletin

Service bulletin # H/K2003-08 October 2003 Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Model: CDR25/CDR26

Subject: Skips While Dubbing

In the event you receive a CDR25 or CDR26 with the complaint: "the units skips when dubbing a CD", follow the instructions below:

(Symptom is a random "skipping" or "looping" of program material from the Play deck resulting in a defective recording when dubbing to CDR disc. Another indication this is taking place is dissimilar track times in the display during recording (Play vs. Record). All dubbing speeds affected. CD play alone without recording will be normal.)

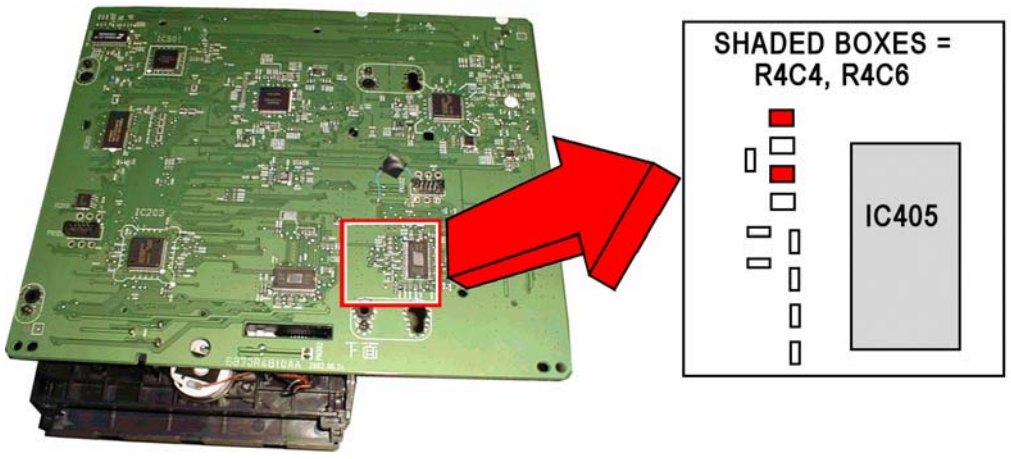
Synopsis: Change SMD resistors R4C4, R4C6 on the MAIN PCB from 2.2Ω to 1.5Ω

Procedure:

1) Power the unit ON and press the EJECT button to open the tray on the RECORD side.
2) Supporting the tray, carefully remove the gray drawer faceplate by lifting it up and out of the groove.
3) Press EJECT button again to retract the tray back into the unit.
4) Turn the unit OFF, unplug AC line cord.

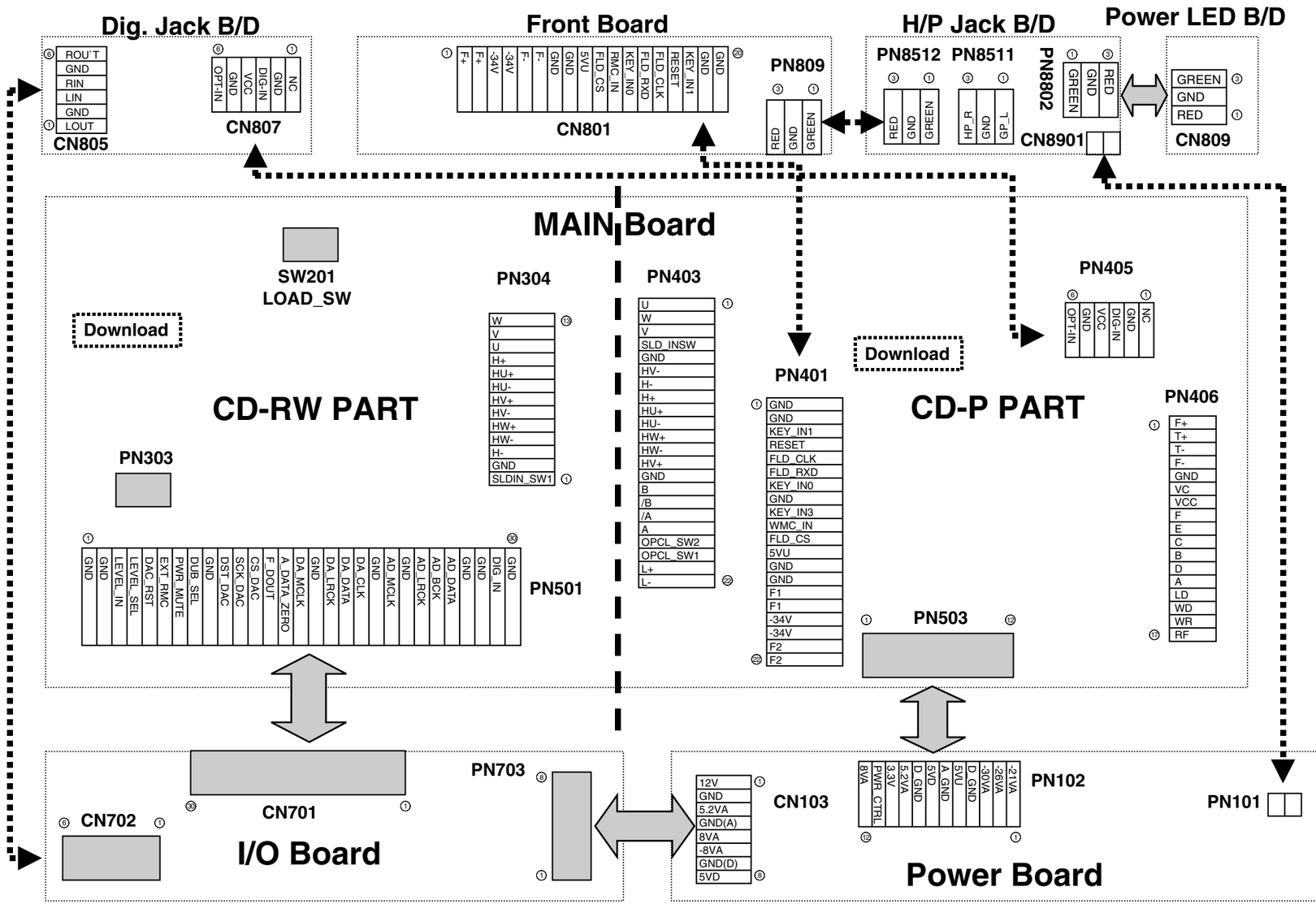
CAUTION: FOLLOW PROPER STATIC CONTROL PROCEDURES TO PREVENT DAMAGE TO THE CDR25/26.

5) Remove the top cover (7 Phillips screws).
6) Remove the six connector cables/plugs on the Main PCB: PN501,503,401,403,405,406.
7) Remove the four plated Phillips screws holding the Main PCB/Record Ass'y to the bottom chassis.
8) Lift the entire Main PCB/Record Ass'y out of the unit; turn it upside-down.
9) Locate and replace the two 2.2 Ω SMD resistors R4C4, R4C6 with 1.5Ω resistors, h/k part# 260-1.5.
10) Replace Main PCB/Record Ass'y; replace connectors PN501,503,401,403,405,406.
11) Plug in unit; turn ON. Eject the Record tray; replace the tray faceplate. Close drawer and test the unit.

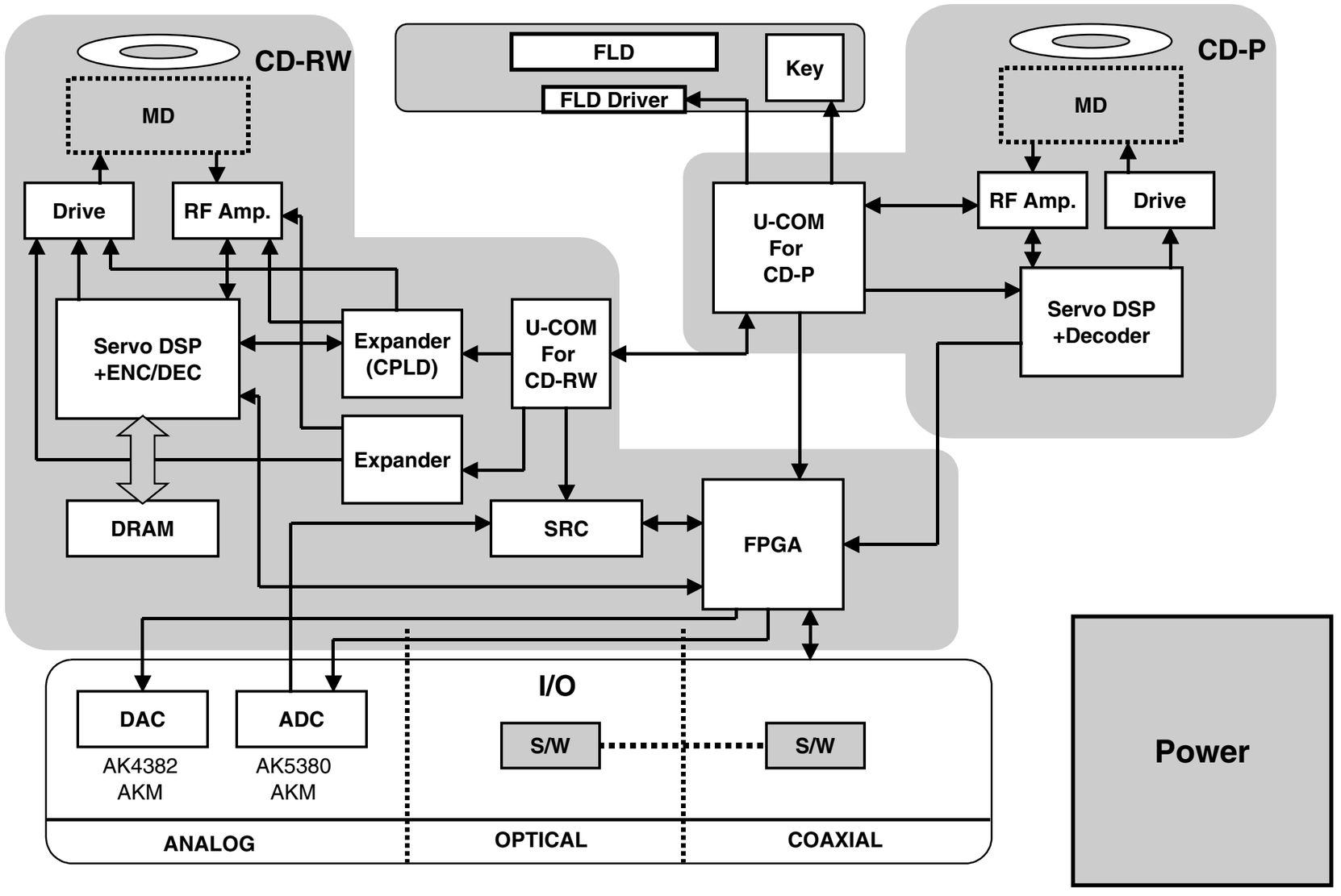


MODELS	SERIAL NUMBER	STATUS	ACTION
CDR25 CDR26	All serial numbers affected	May need modification for complaint of "skipping"	Change R4C4, R4C6 on the MAIN PCB from 2.2Ω to 1.5Ω

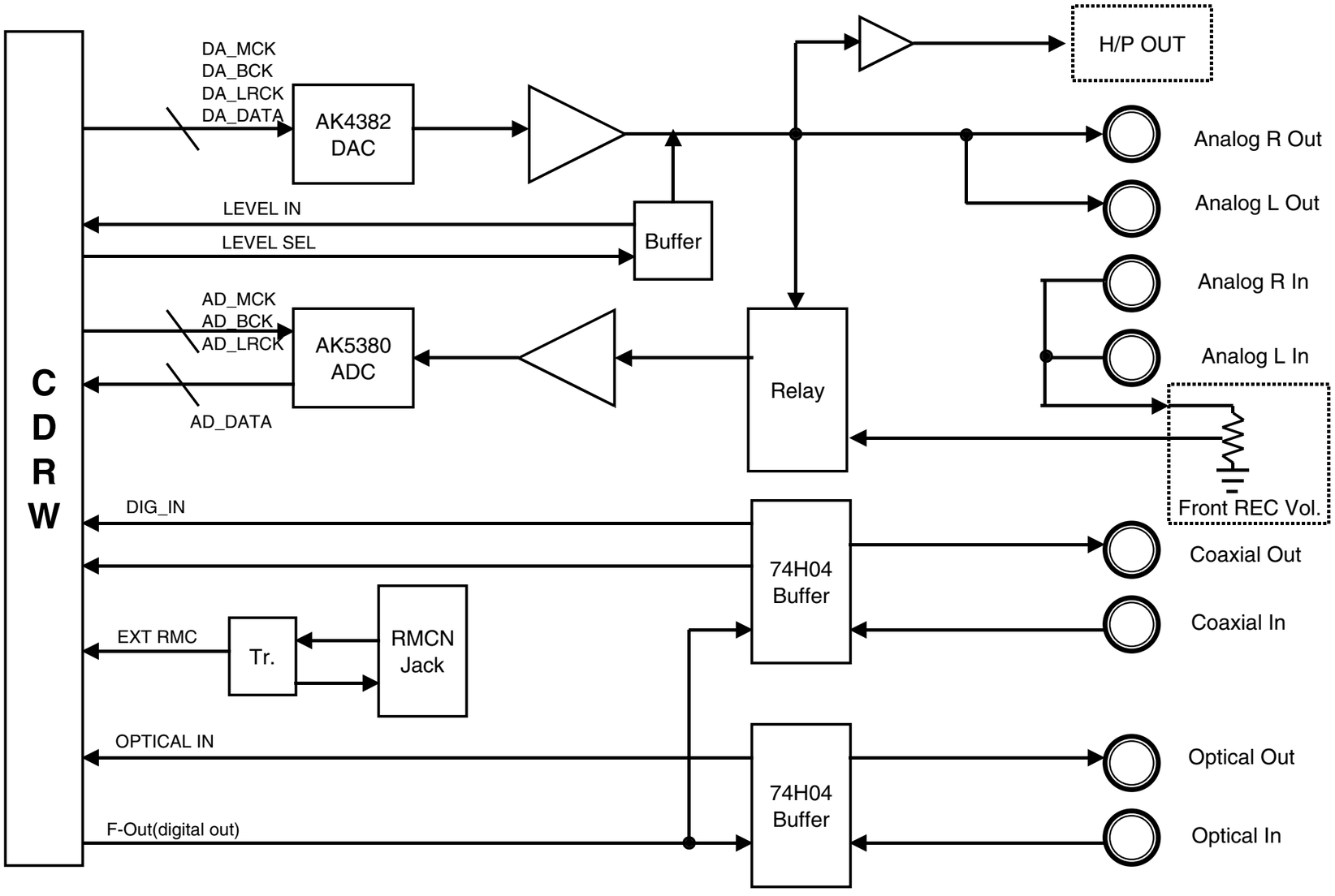
OVERALL WIRING DIAGRAM 1



OVERALL WIRING DIAGRAM 2

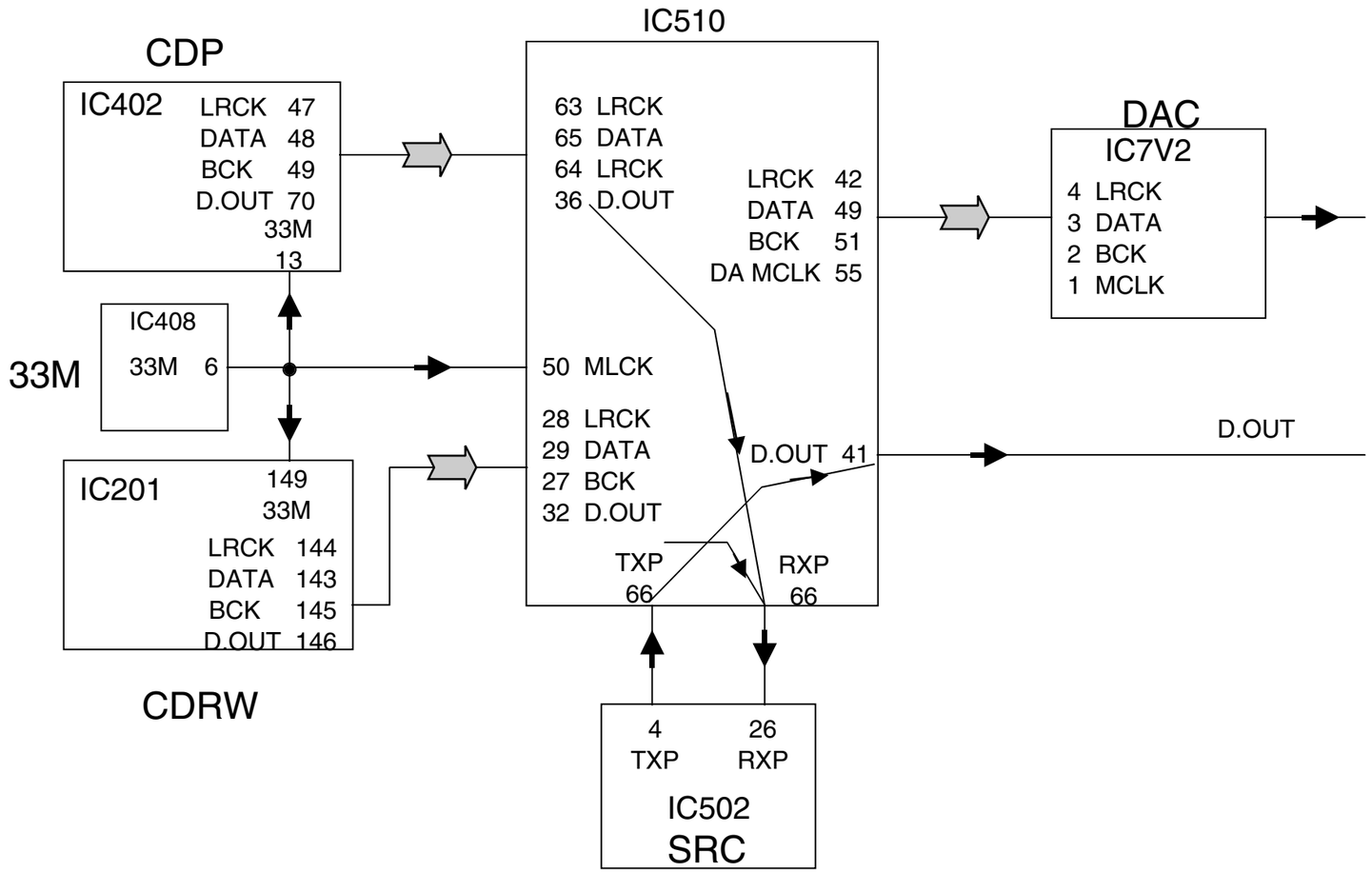


BLOCK DIAGRAM I/O



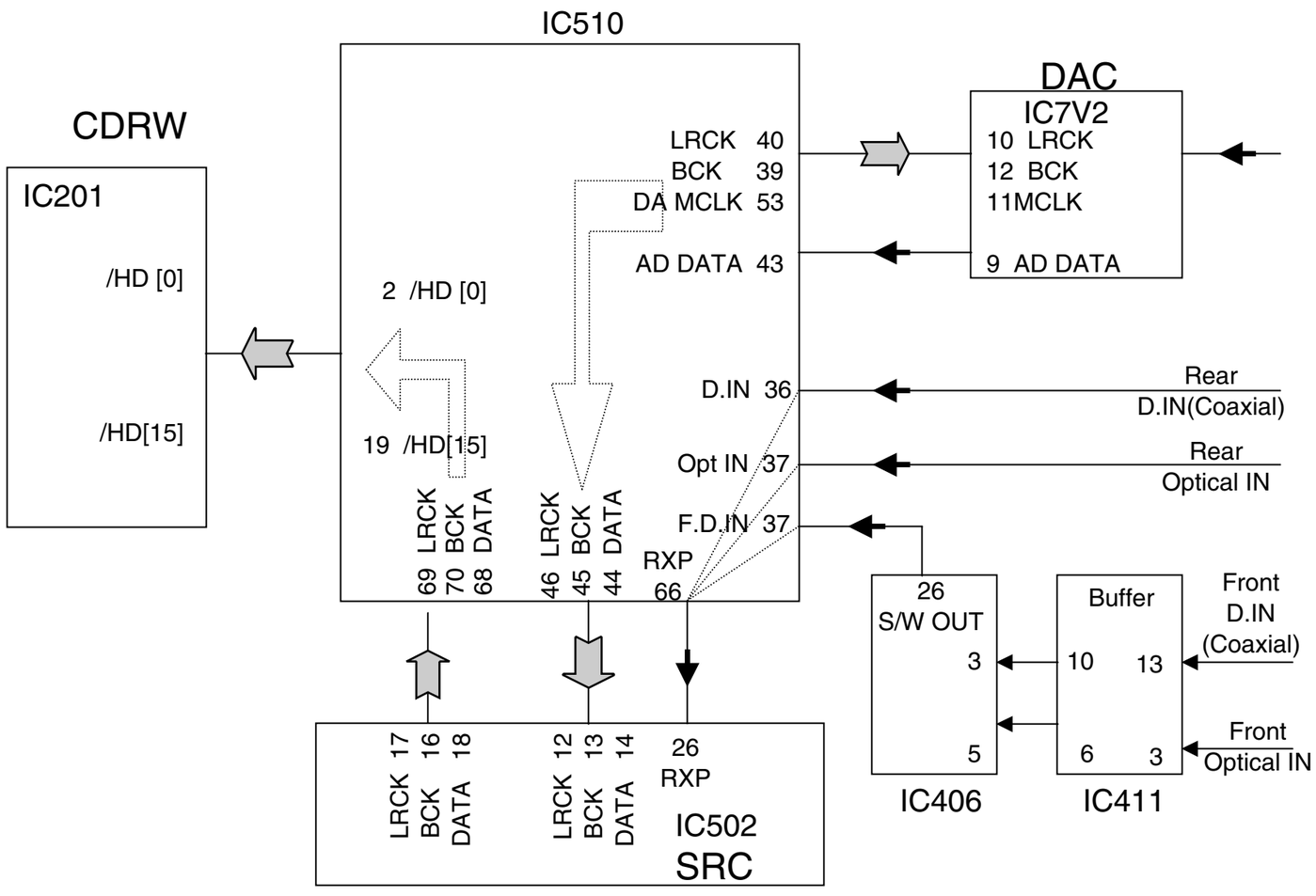
CDP BLOCK DIAGRAM

PLAY Path

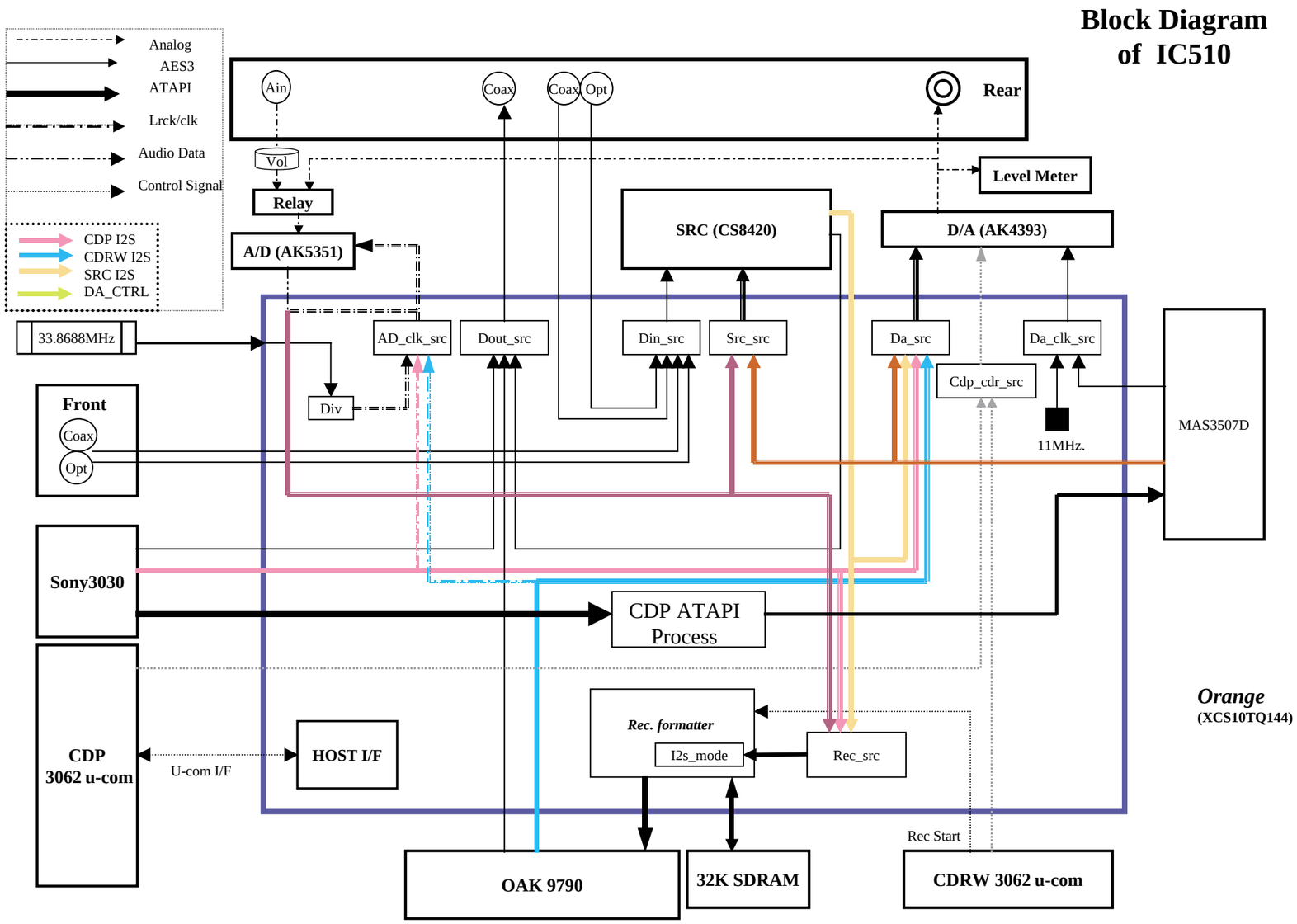


CDR BLOCK DIAGRAM

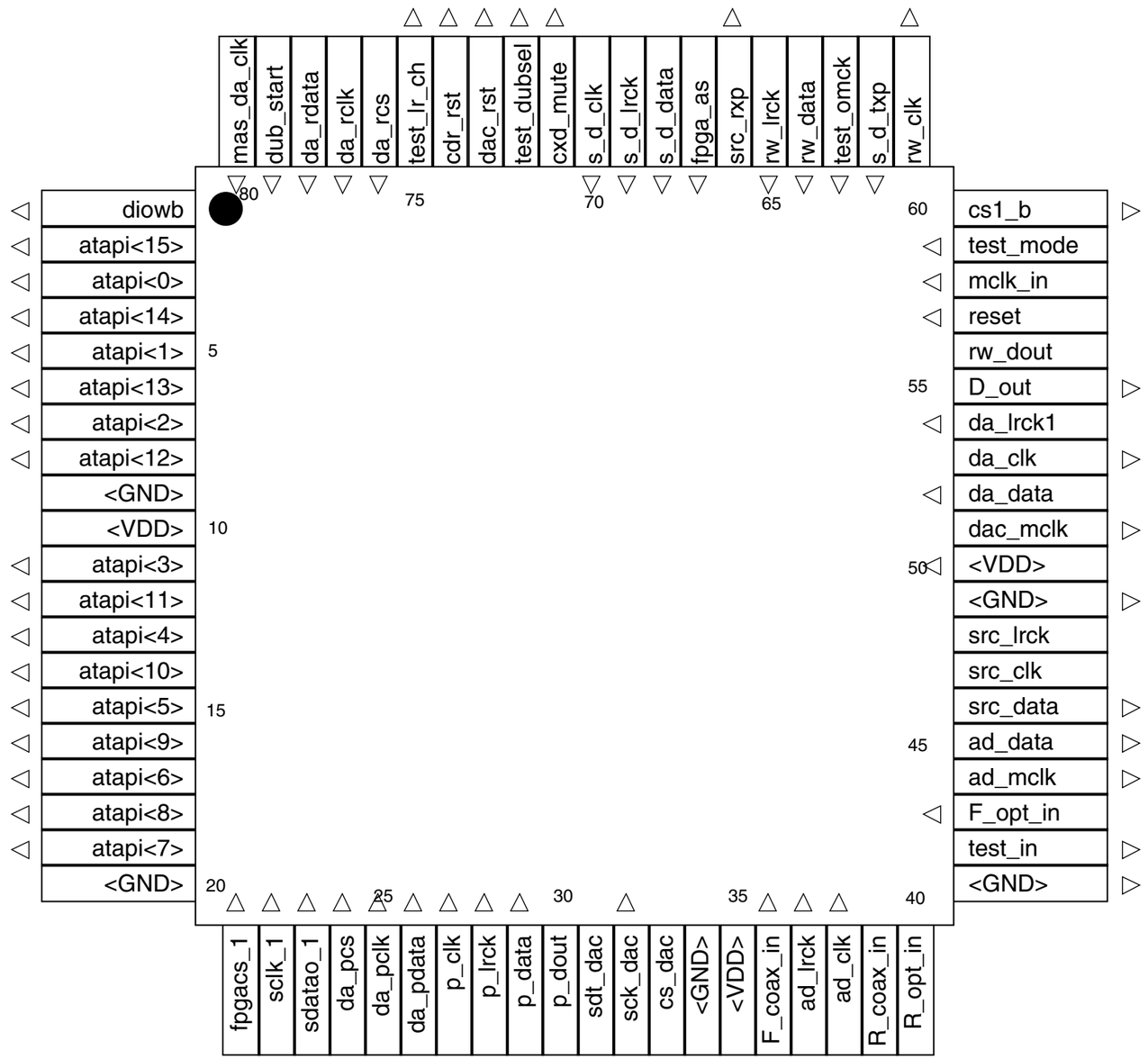
REC Path



IC510 BLOCK DIAGRAM

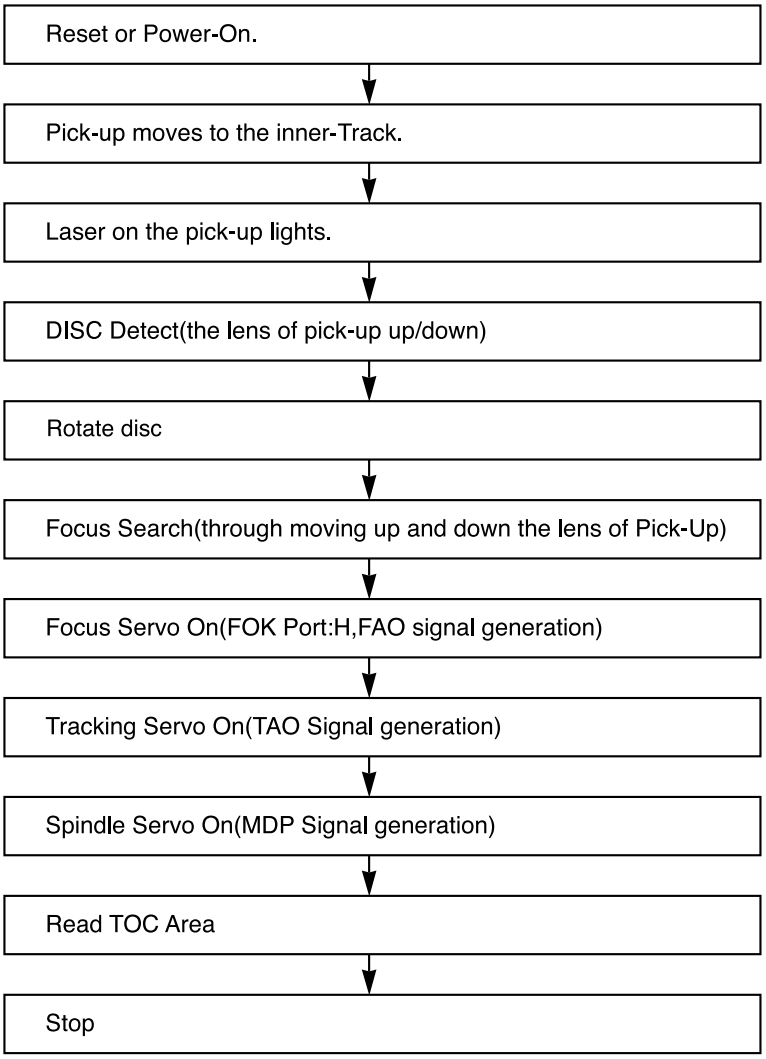


5. IC501 Pin Map Block Diagram



TROUBLESHOOTING GUIDE

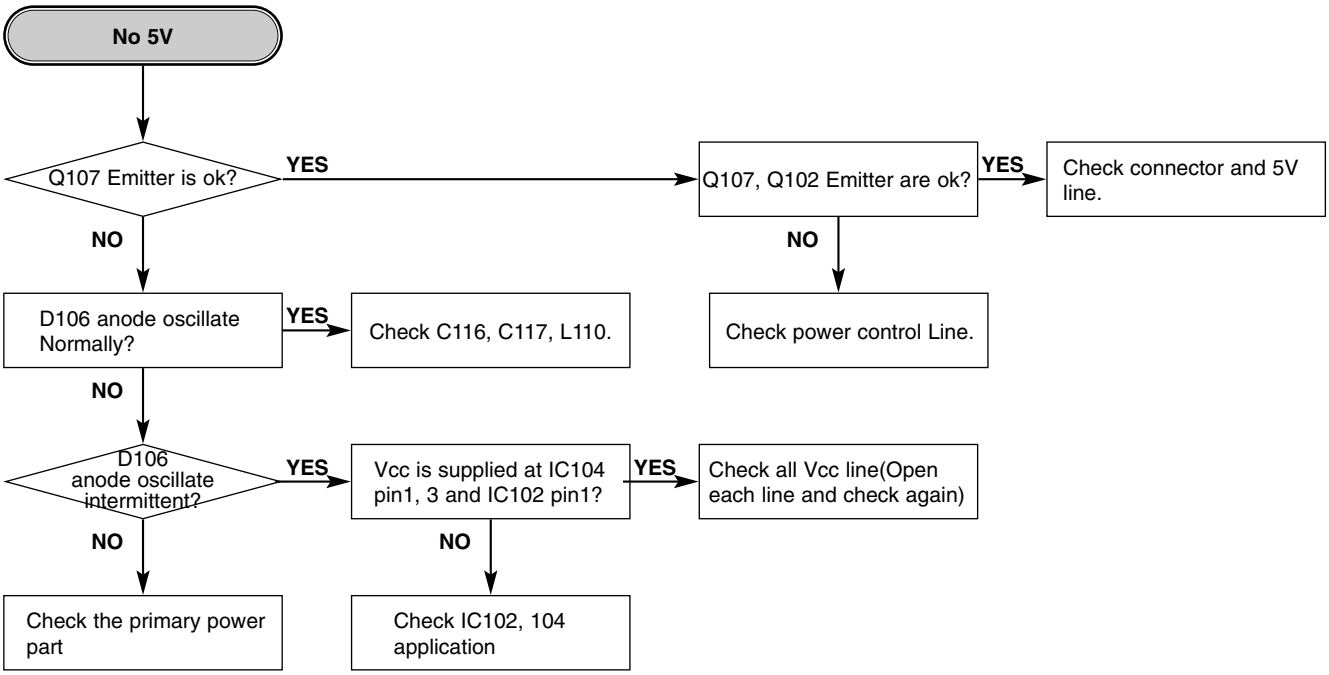
1. Initial Lead-in Operation


Reset or Power-On.
Pick-up moves to the inner-Track.
Laser on the pick-up lights.
DISC Detect(the lens of pick-up up/down)
Rotate disc
Focus Search(through moving up and down the lens of Pick-Up)
Focus Servo On(FOK Port:H,FAO signal generation)
Tracking Servo On(TAO Signal generation)
Spindle Servo On(MDP Signal generation)
Read TOC Area
Stop

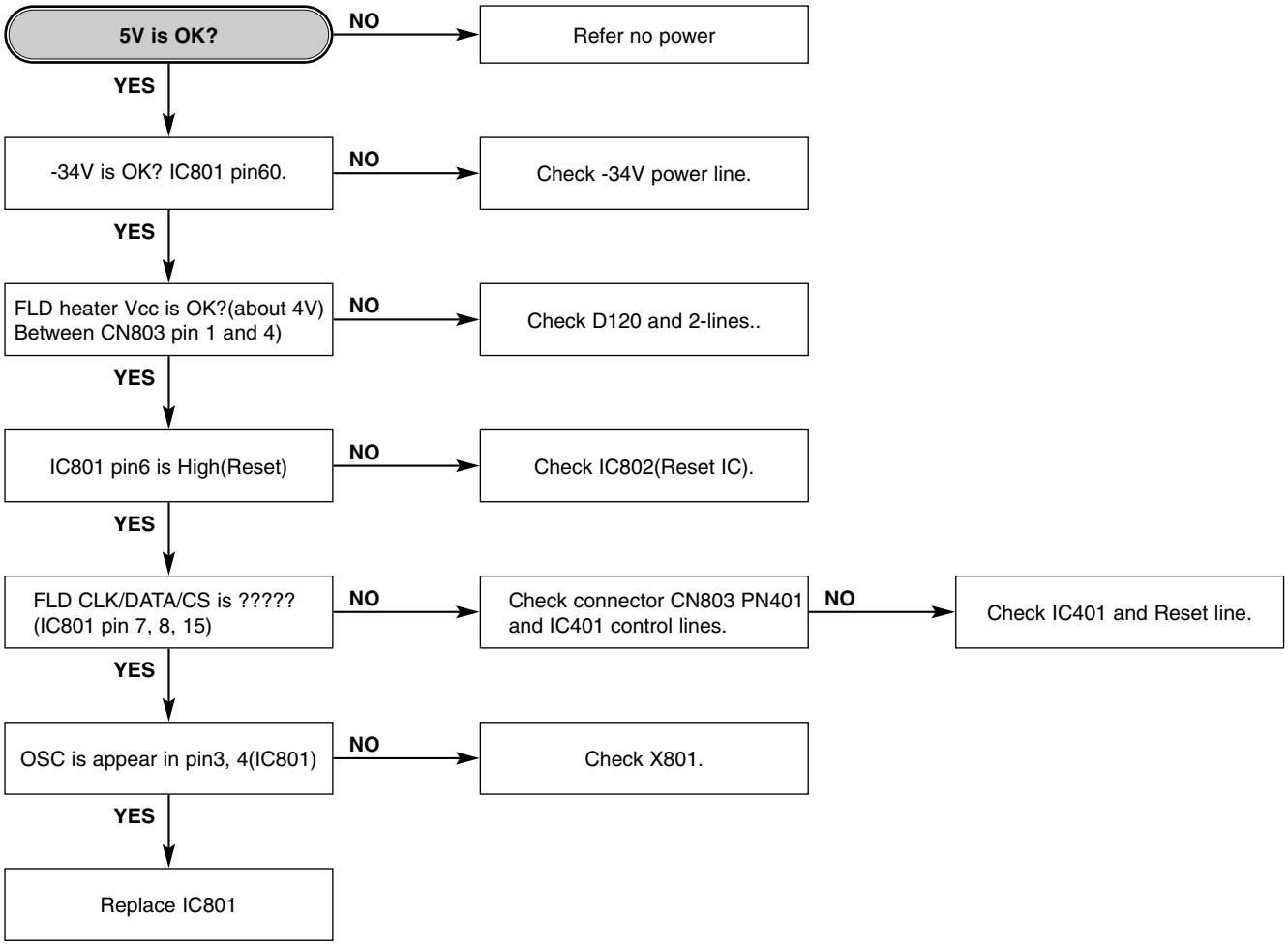
2. Trouble List(Circuit)

(In the Initial Lead-in Operation Mode)
A. Pick-Up doesn't move to the inner-track.
B. Pick-Up lens doesn't move up and down.
C. Disc doesn't rotate.
D. The Laser(RED) of Pick-Up doesn't light.
E. TOC isn't read.

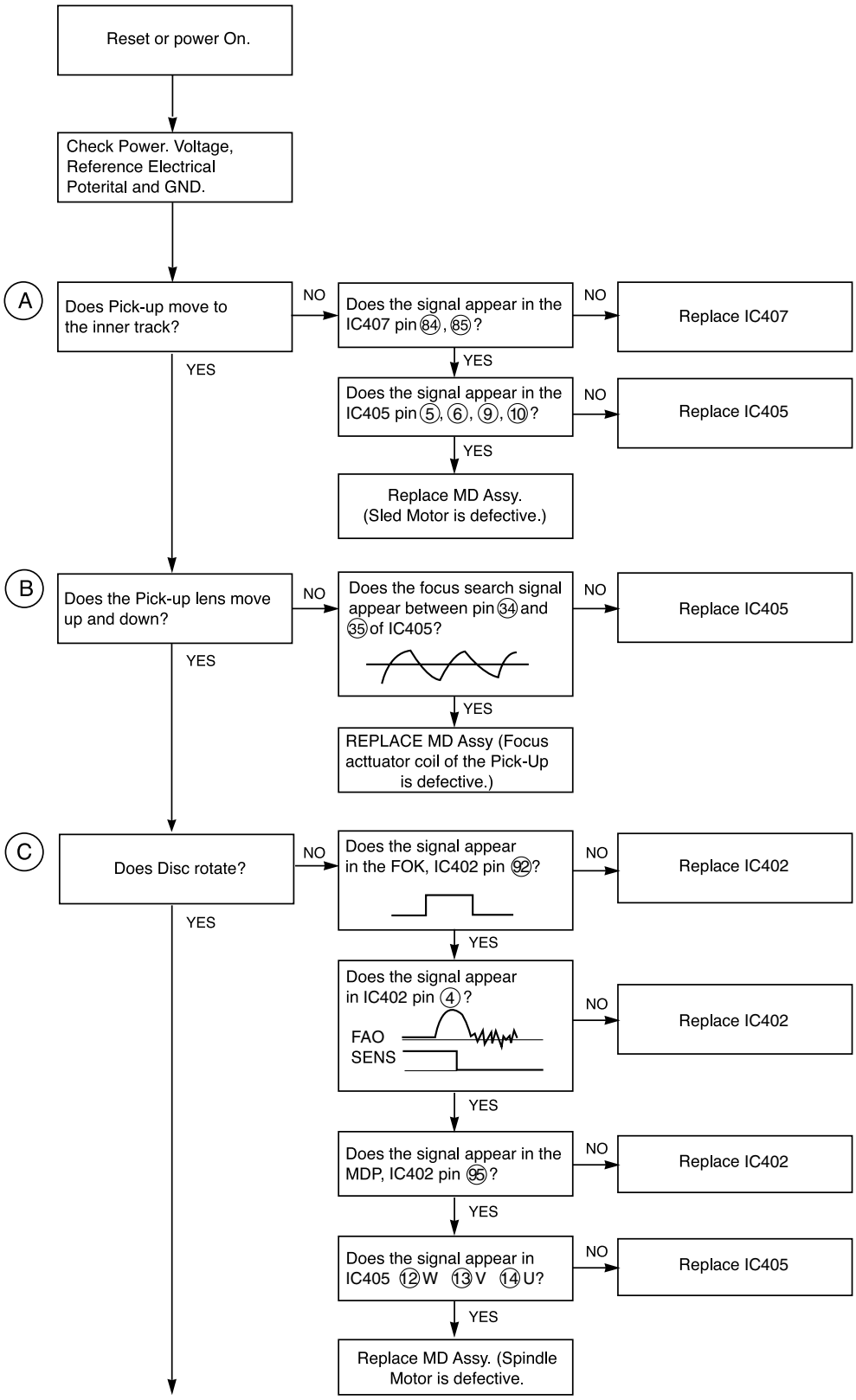
3. No power

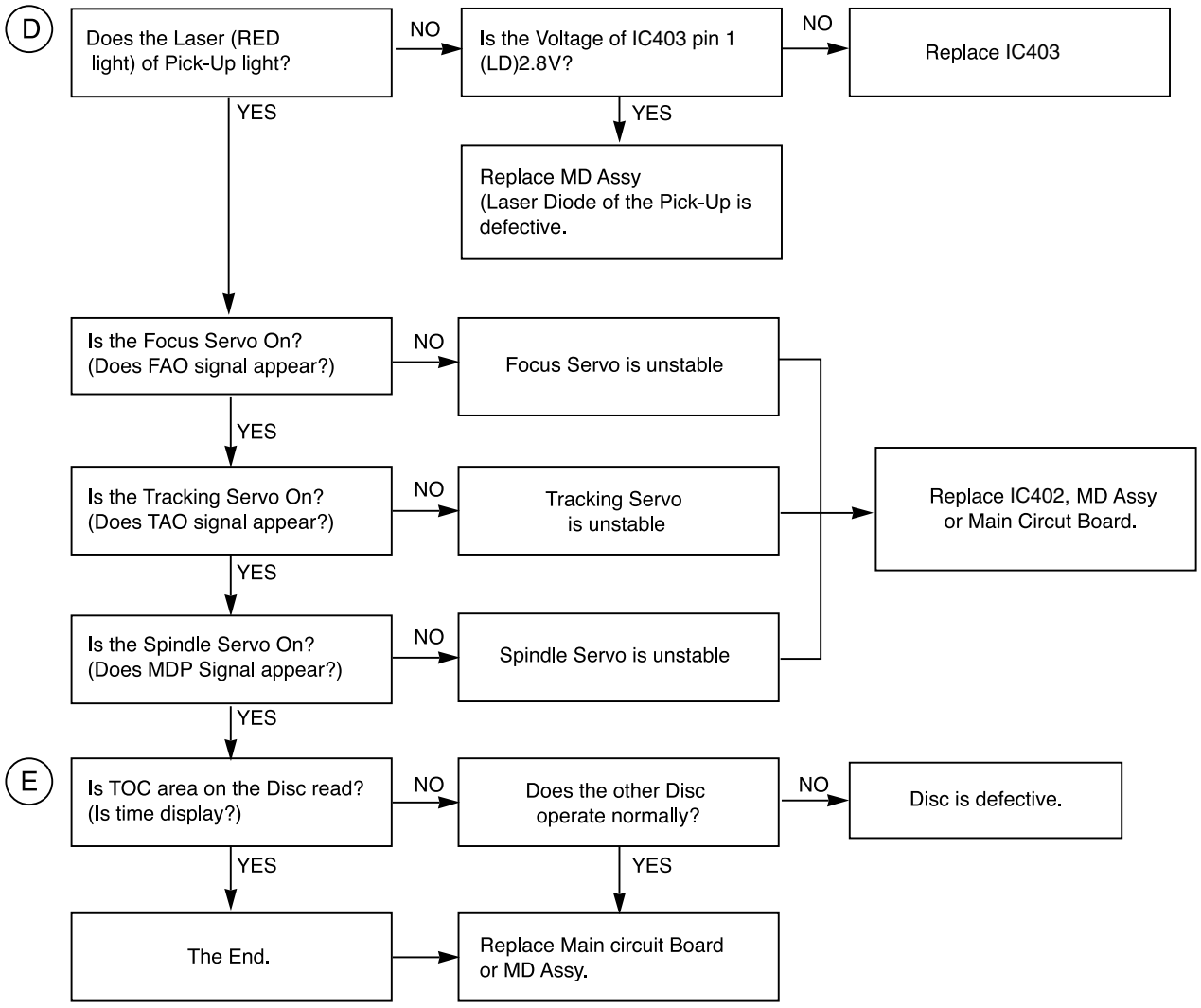

No 5V
Q107 Emitter is ok?
YES
Q107, Q102 Emitter are ok?
YES
Check connector and 5V line.
NO
NO
D106 anode oscillate Normally?
YES
Check C116, C117, L110.
Check power control Line.
NO
D106 anode oscillate intermittent?
YES
Vcc is supplied at IC104 pin1, 3 and IC102 pin1?
YES
Check all Vcc line(Open each line and check again)
NO
NO
Check the primary power part
Check IC102, 104 application

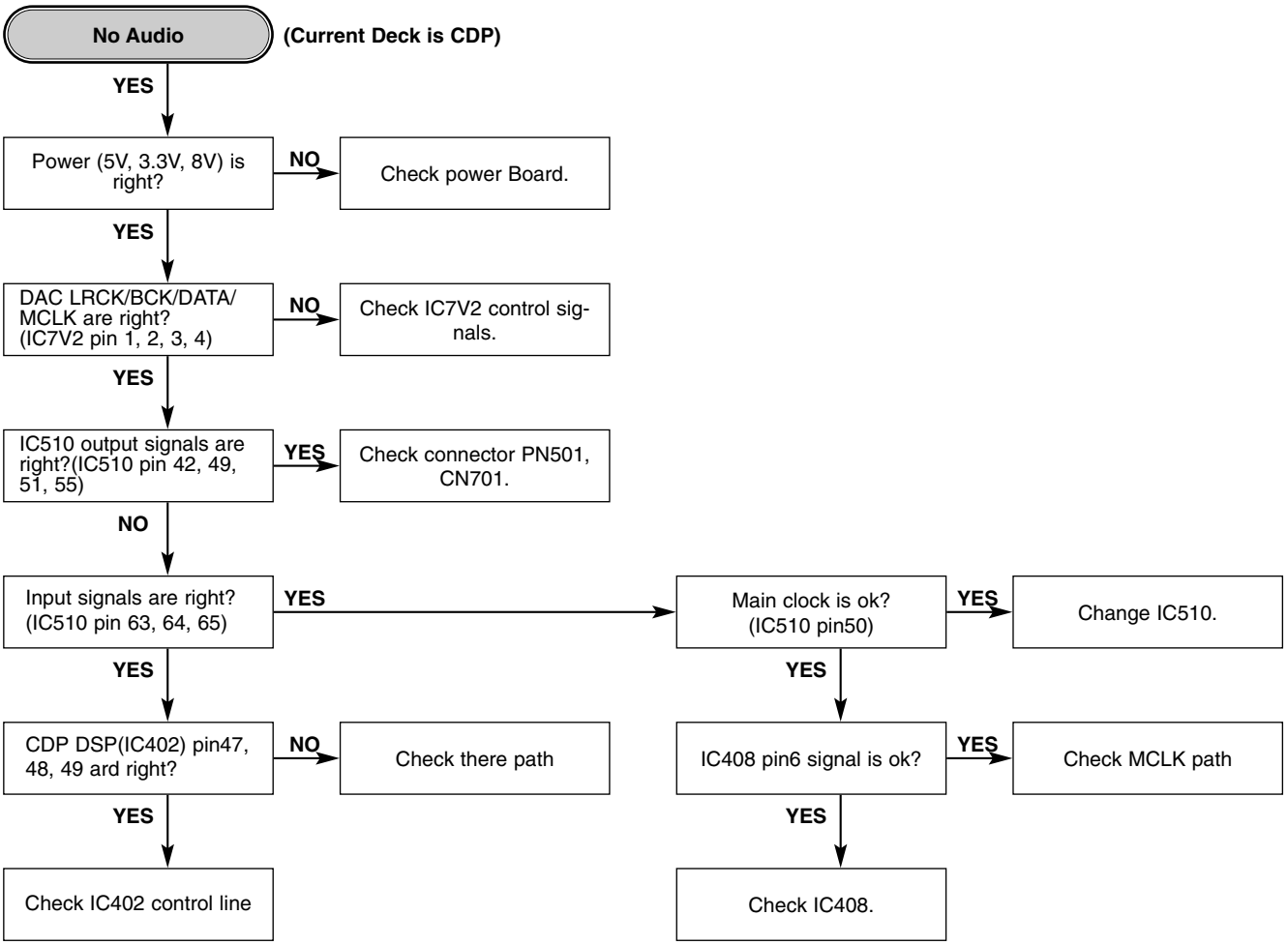
4. FLD No Display

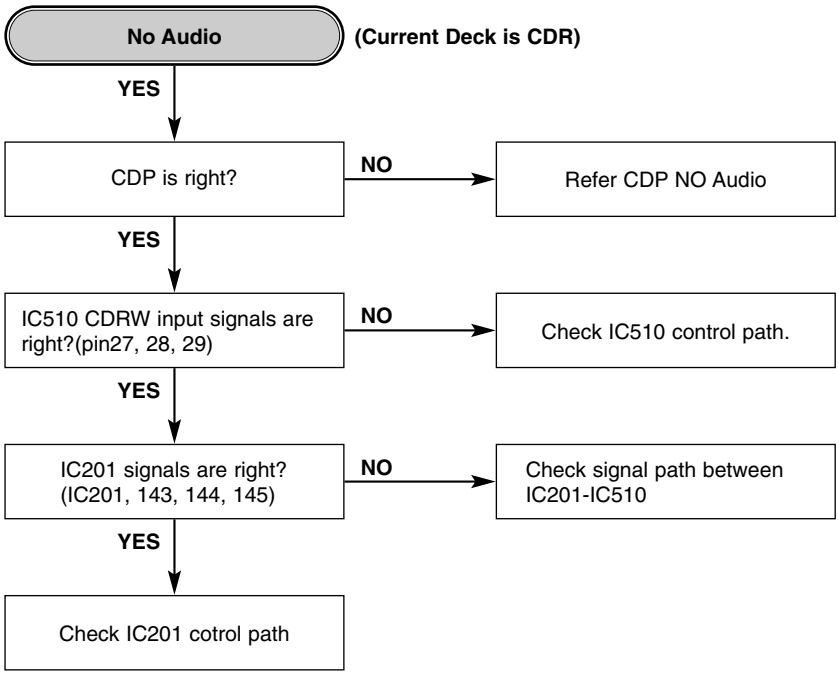


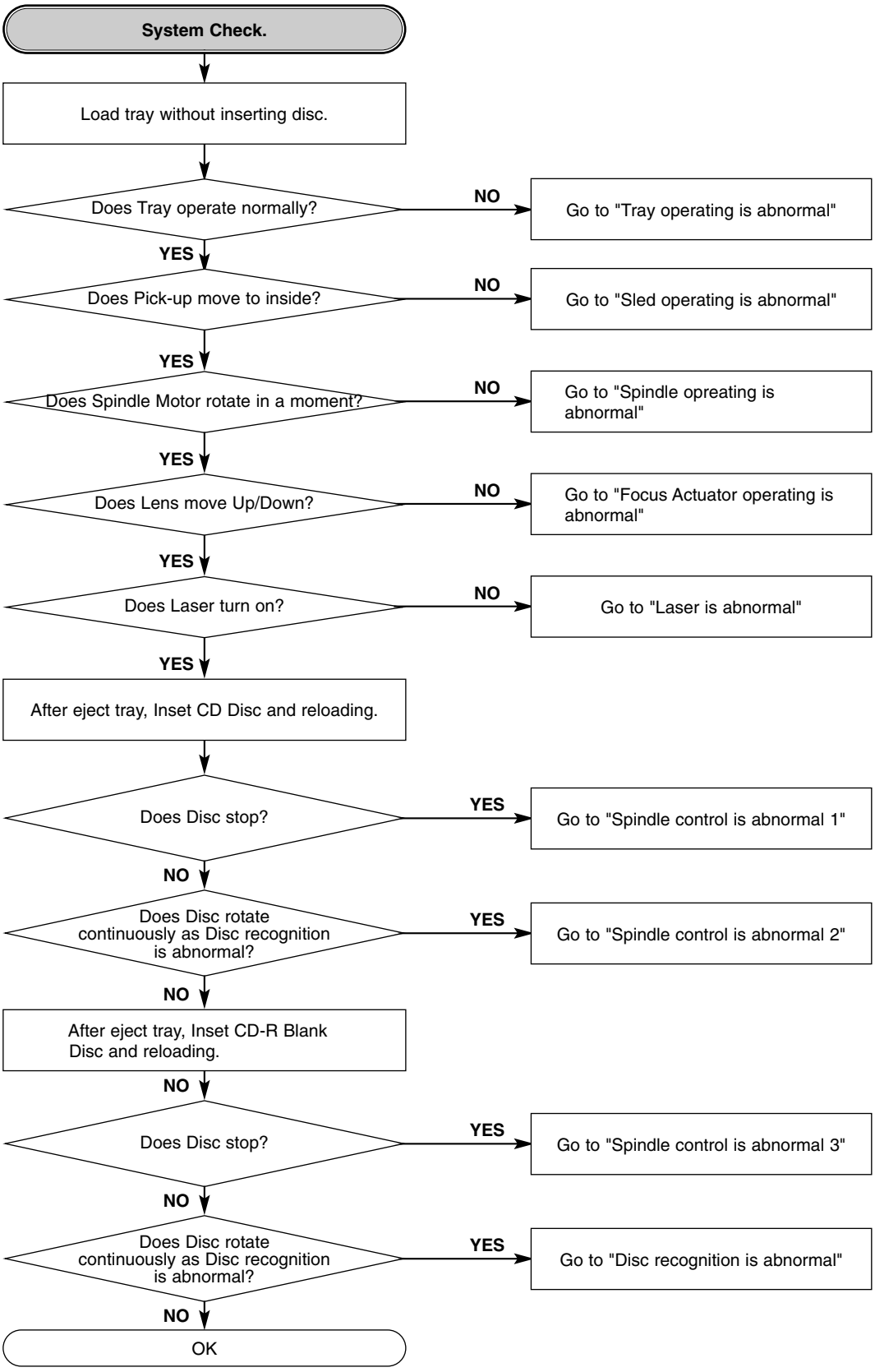
5. OPERATION MODE

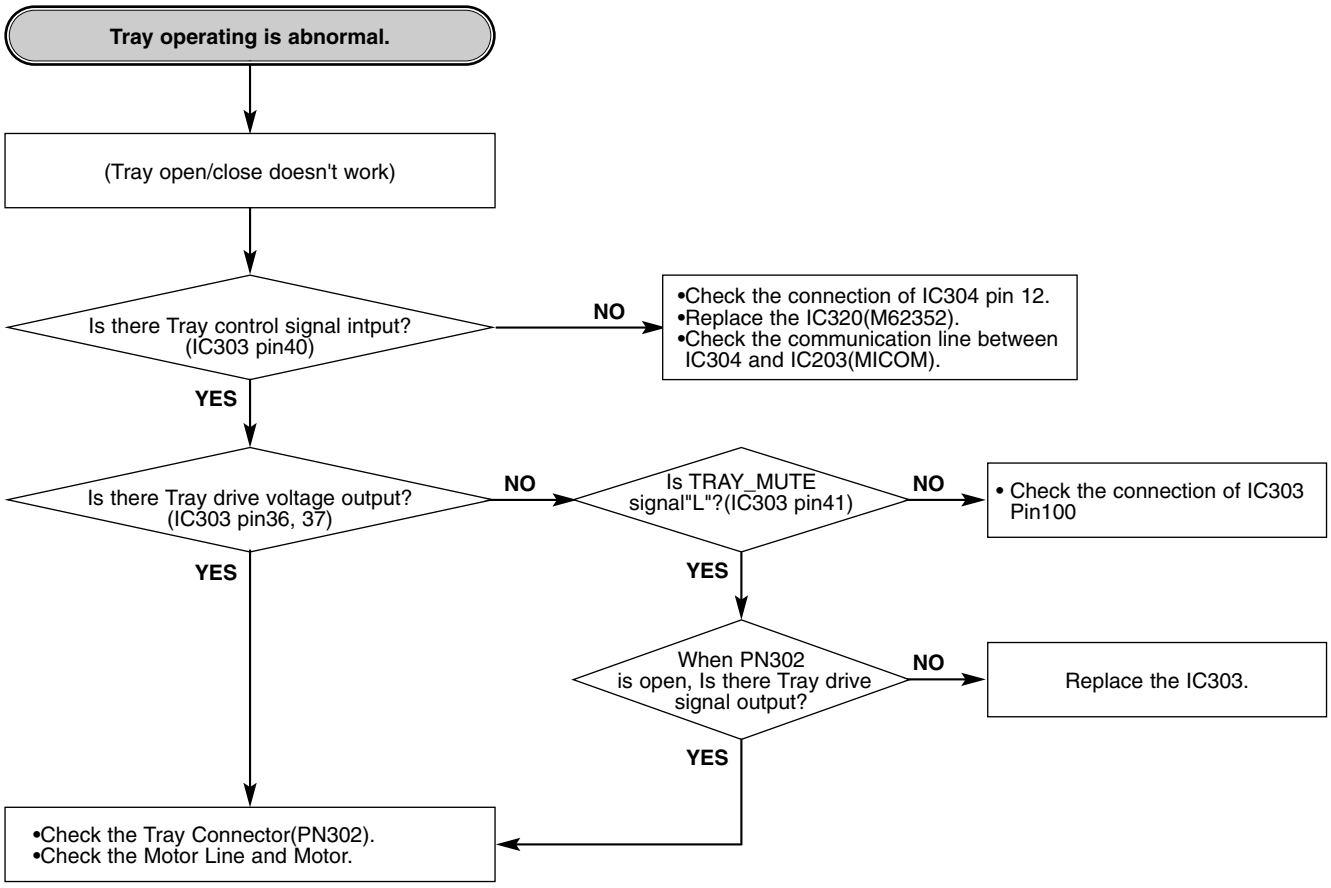


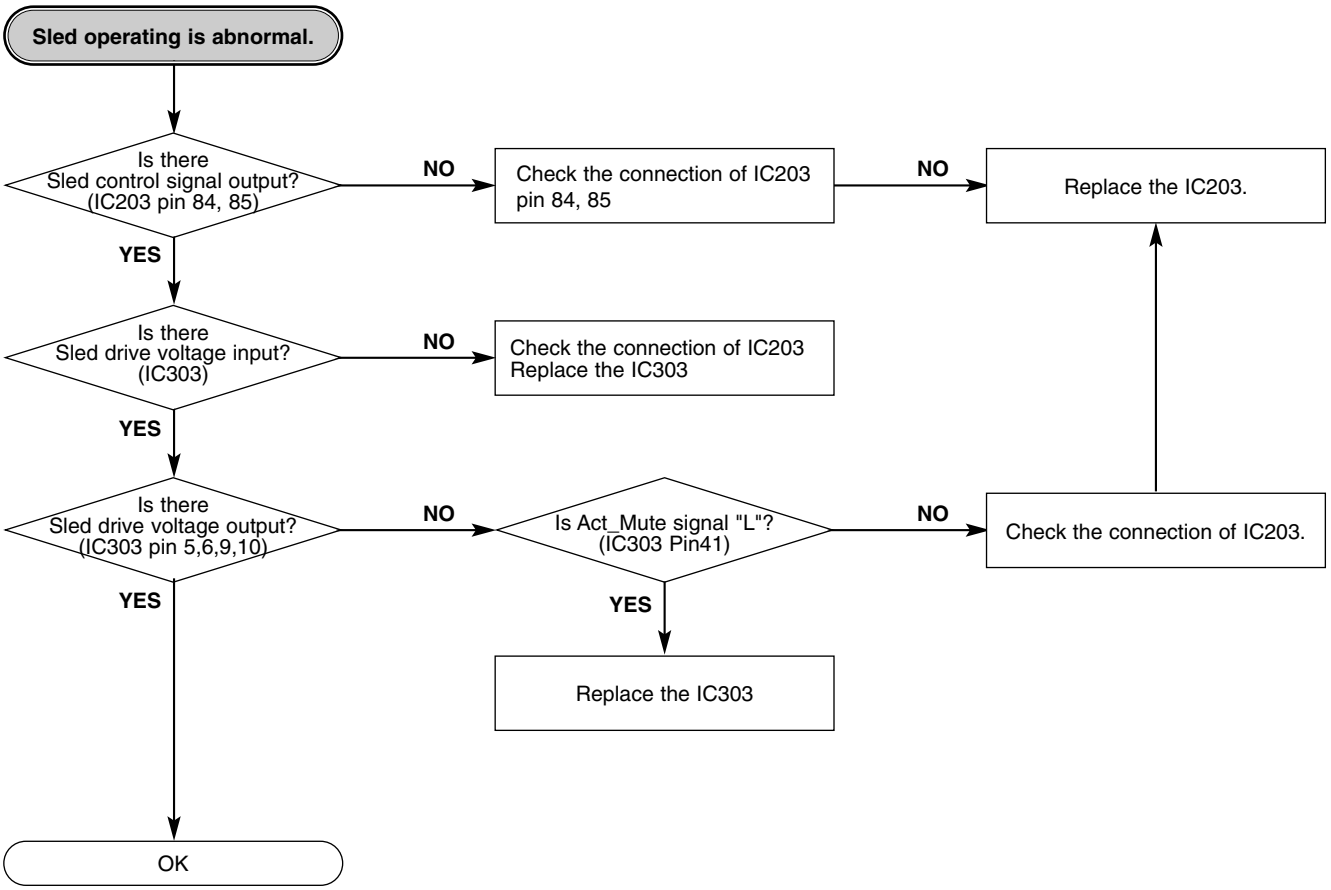

D
Does the Laser (RED light) of Pick-Up light?
NO
Is the Voltage of IC403 pin 1 (LD)2.8V?
NO
Replace IC403
YES
YES
Replace MD Assy (Laser Diode of the Pick-Up is defective.
Is the Focus Servo On? (Does FAO signal appear?)
NO
Focus Servo is unstable
YES
Is the Tracking Servo On? (Does TAO signal appear?)
NO
Tracking Servo is unstable
Replace IC402, MD Assy or Main Circut Board.
YES
Is the Spindle Servo On? (Does MDP Signal appear?)
NO
Spindle Servo is unstable
YES
E
Is TOC area on the Disc read? (Is time display?)
NO
Does the other Disc operate normally?
NO
Disc is defective.
YES
YES
The End.
Replace Main circuit Board or MD Assy.

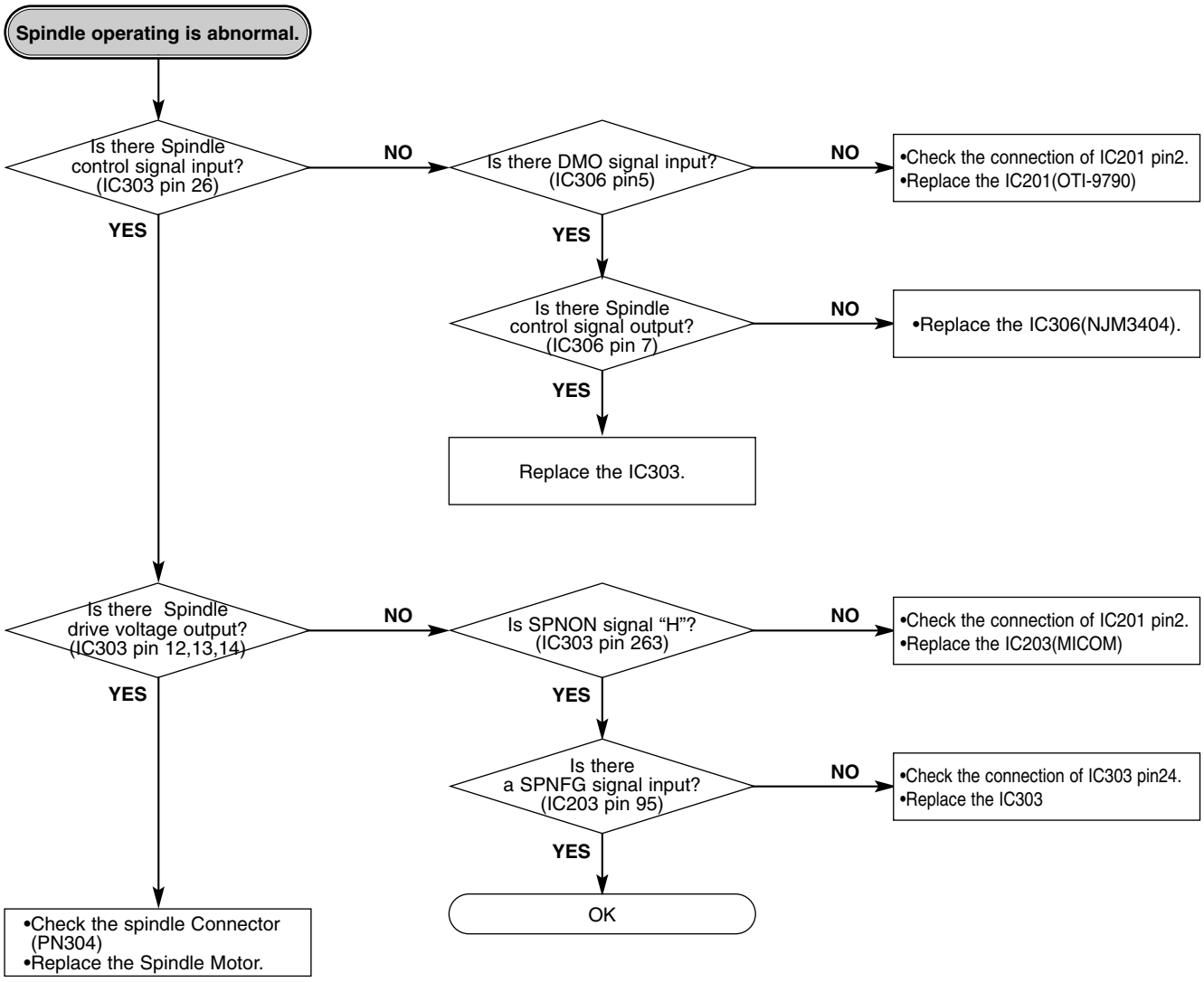

No Audio
(Current Deck is CDP)
YES
Power (5V, 3.3V, 8V) is right?
NO
Check power Board.
YES
DAC LRCK/BCK/DATA/ MCLK are right? (IC7V2 pin 1, 2, 3, 4)
NO
Check IC7V2 control signals.
YES
IC510 output signals are right?(IC510 pin 42, 49, 51, 55)
YES
Check connector PN501, CN701.
NO
Input signals are right? (IC510 pin 63, 64, 65)
YES
Main clock is ok? (IC510 pin50)
YES
Change IC510.
YES
YES
CDP DSP(IC402) pin47, 48, 49 ard right?
NO
Check there path
IC408 pin6 signal is ok?
YES
Check MCLK path
YES
YES
Check IC402 control line
Check IC408.

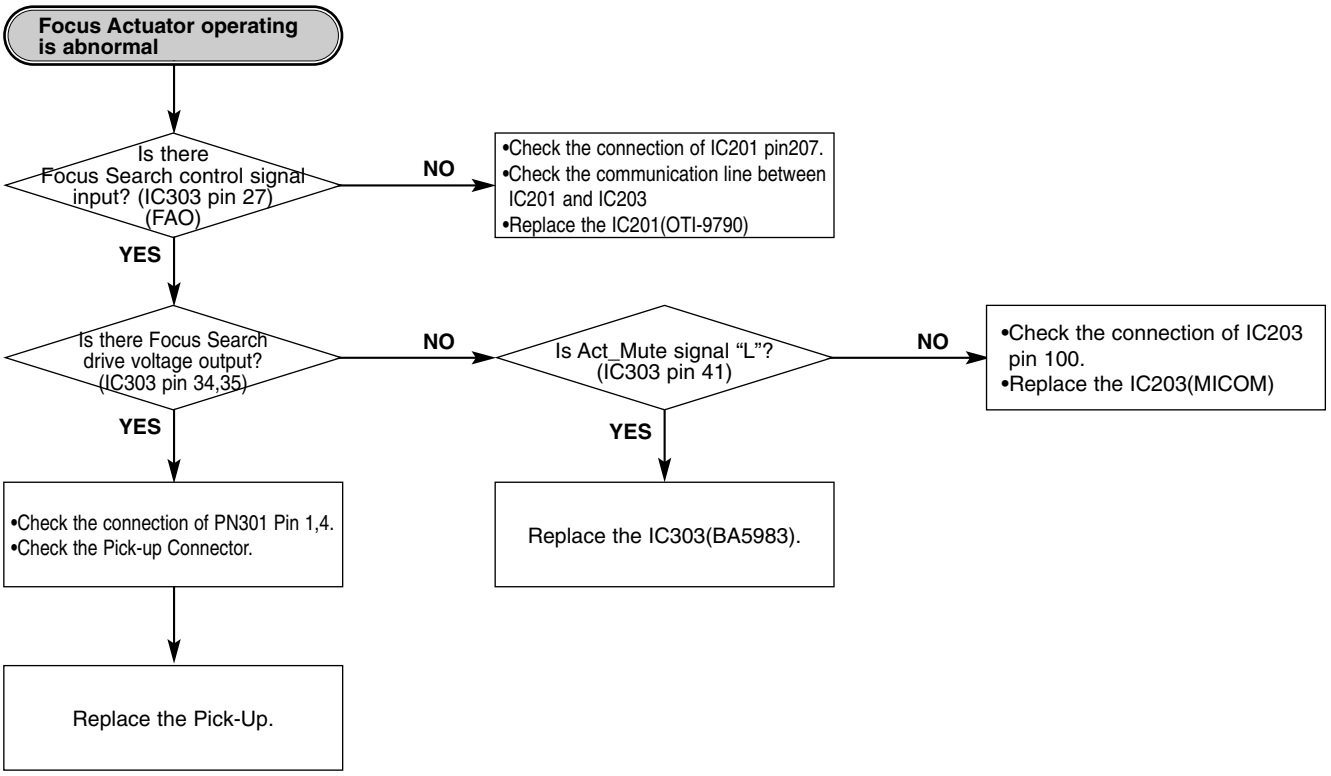

No Audio
(Current Deck is CDR)
YES
CDP is right?
NO
Refer CDP NO Audio
YES
IC510 CDRW input signals are right?(pin27, 28, 29)
NO
Check IC510 control path.
YES
IC201 signals are right? (IC201, 143, 144, 145)
NO
Check signal path between IC201-IC510
YES
Check IC201 cotrol path

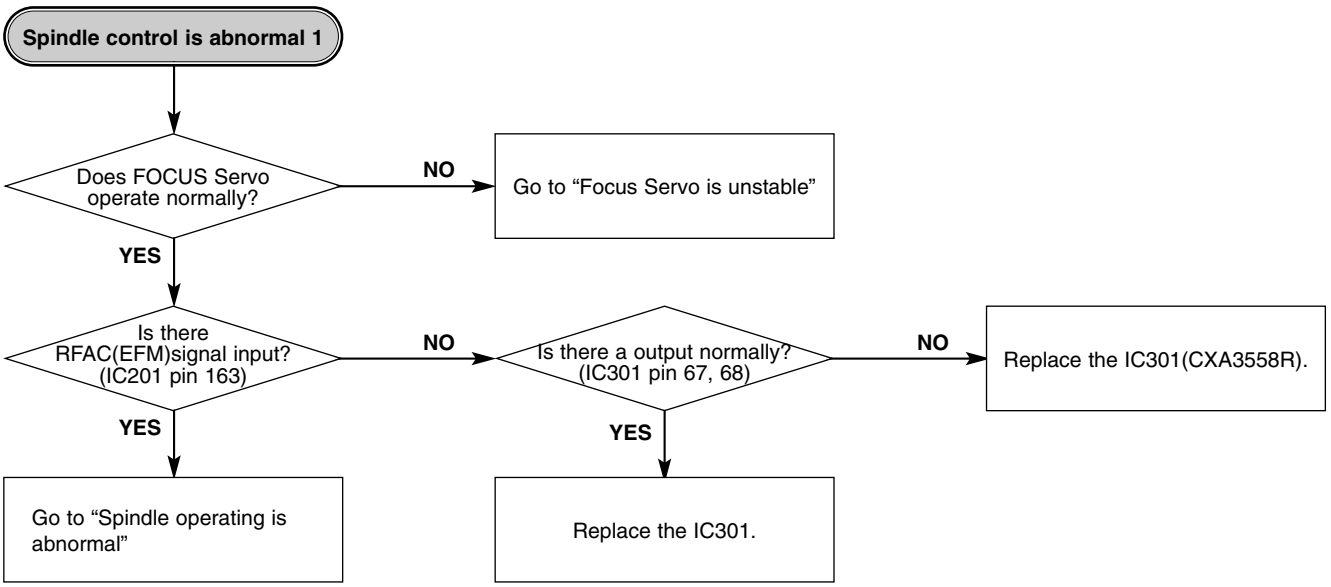

System Check.
Load tray without inserting disc.
Does Tray operate normally?
NO
Go to "Tray operating is abnormal"
YES
Does Pick-up move to inside?
NO
Go to "Sled operating is abnormal"
YES
Does Spindle Motor rotate in a moment?
NO
Go to "Spindle opreating is abnormal"
YES
Does Lens move Up/Down?
NO
Go to "Focus Actuator operating is abnormal"
YES
Does Laser turn on?
NO
Go to "Laser is abnormal"
YES
After eject tray, Inset CD Disc and reloading.
Does Disc stop?
YES
Go to "Spindle control is abnormal 1"
NO
Does Disc rotate continuously as Disc recognition is abnormal?
YES
Go to "Spindle control is abnormal 2"
NO
After eject tray, Inset CD-R Blank Disc and reloading.
NO
Does Disc stop?
YES
Go to "Spindle control is abnormal 3"
NO
Does Disc rotate continuously as Disc recognition is abnormal?
YES
Go to "Disc recognition is abnormal"
NO
OK

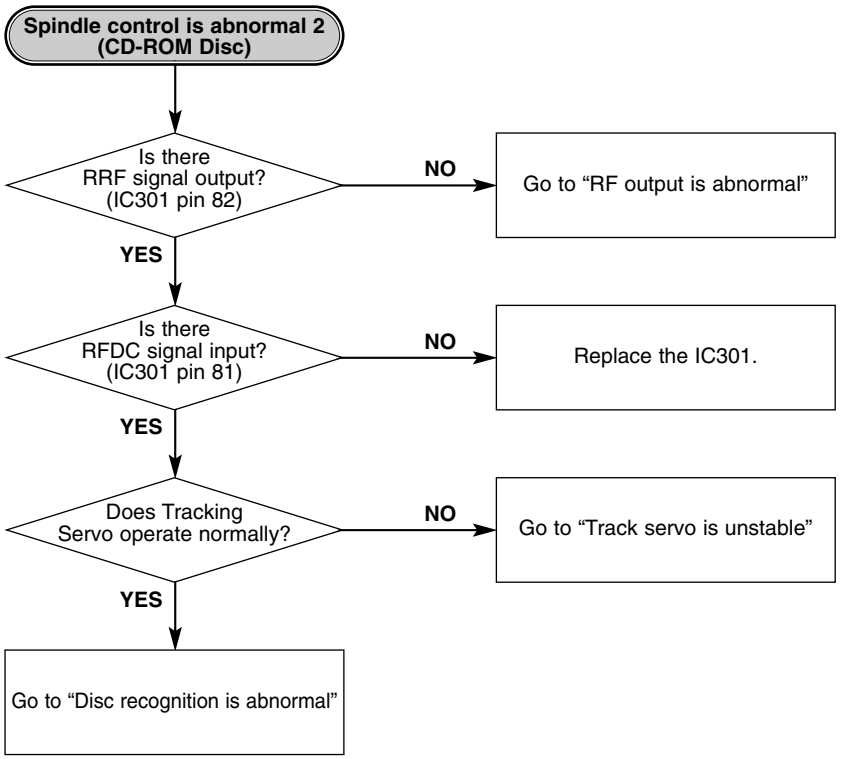

Tray operating is abnormal.
(Tray open/close doesn't work)
Is there Tray control signal intput?
(IC303 pin40)
NO
•Check the connection of IC304 pin 12.
•Replace the IC320(M62352).
•Check the communication line between
IC304 and IC203(MICOM).
YES
Is there Tray drive voltage output?
(IC303 pin36, 37)
NO
Is TRAY_MUTE
signal"L"?(IC303 pin41)
NO
• Check the connection of IC303
Pin100
YES
YES
When PN302
is open, Is there Tray drive
signal output?
NO
Replace the IC303.
YES
•Check the Tray Connector(PN302).
•Check the Motor Line and Motor.

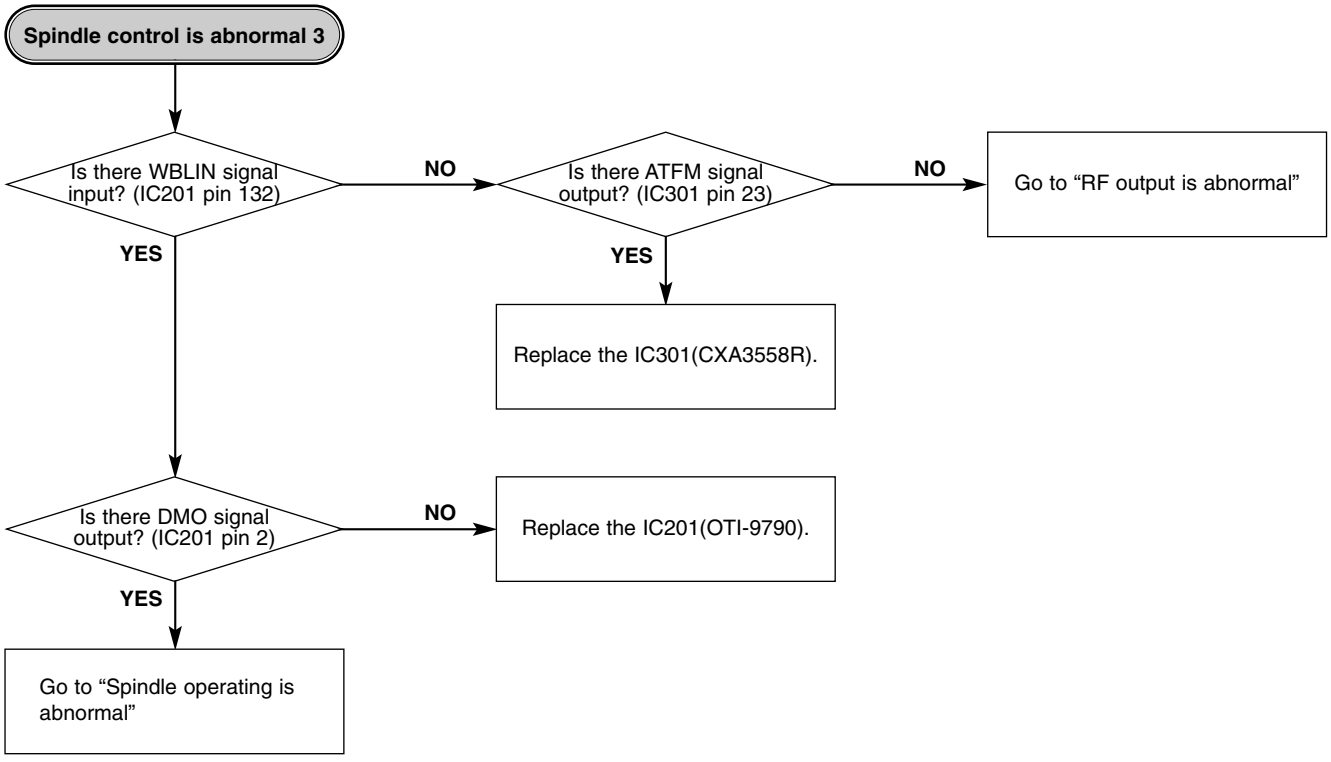

Sled operating is abnormal.
Is there Sled control signal output? (IC203 pin 84, 85)
NO
Check the connection of IC203 pin 84, 85
NO
Replace the IC203.
YES
Is there Sled drive voltage input? (IC303)
NO
Check the connection of IC203 Replace the IC303
YES
Is there Sled drive voltage output? (IC303 pin 5,6,9,10)
NO
Is Act_Mute signal "L"? (IC303 Pin41)
NO
Check the connection of IC203.
YES
Replace the IC303
YES
OK

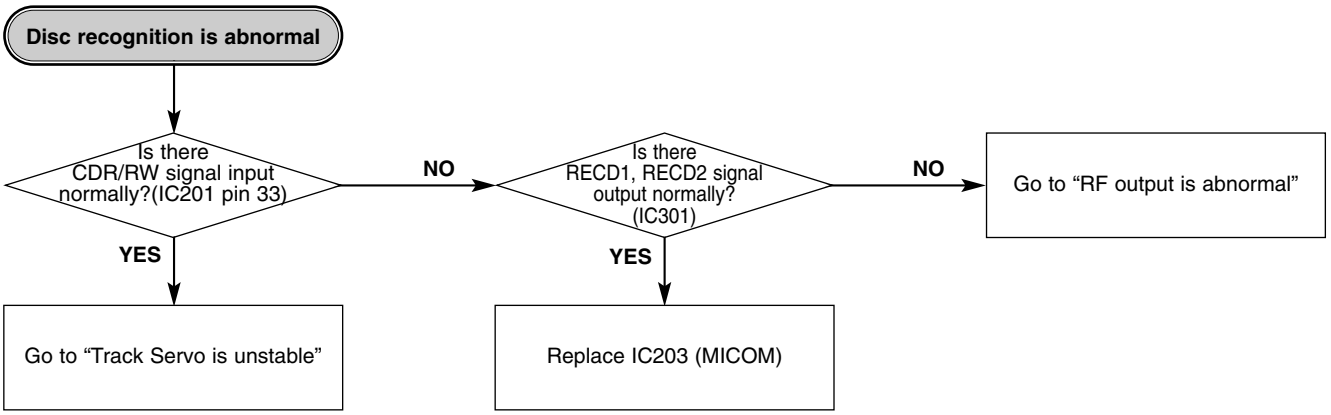

Spindle operating is abnormal.
Is there Spindle control signal input? (IC303 pin 26)
NO
Is there DMO signal input? (IC306 pin5)
NO
•Check the connection of IC201 pin2.
•Replace the IC201(OTI-9790)
YES
YES
Is there Spindle control signal output? (IC306 pin 7)
NO
•Replace the IC306(NJM3404).
YES
Replace the IC303.
Is there Spindle drive voltage output? (IC303 pin 12,13,14)
NO
Is SPNON signal "H"? (IC303 pin 263)
NO
•Check the connection of IC201 pin2.
•Replace the IC203(MICOM)
YES
YES
Is there a SPNFG signal input? (IC203 pin 95)
NO
•Check the connection of IC303 pin24.
•Replace the IC303
YES
OK
•Check the spindle Connector (PN304)
•Replace the Spindle Motor.

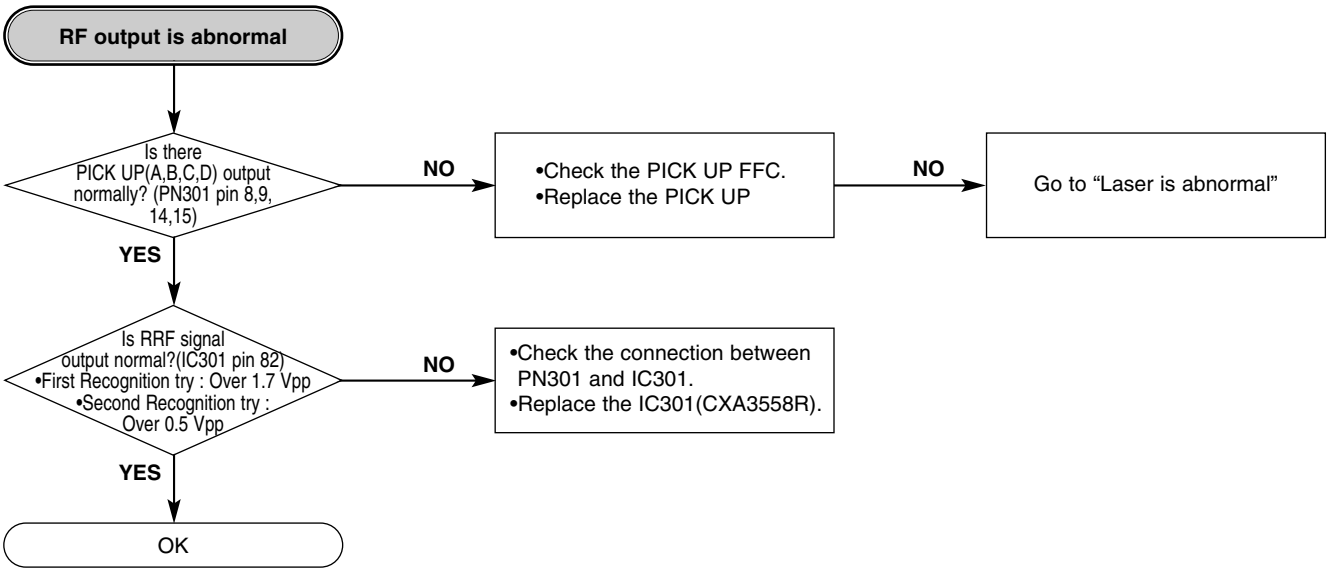

Focus Actuator operating is abnormal
Is there Focus Search control signal input? (IC303 pin 27) (FAO)
NO
•Check the connection of IC201 pin207.
•Check the communication line between IC201 and IC203
•Replace the IC201(OTI-9790)
YES
Is there Focus Search drive voltage output? (IC303 pin 34,35)
NO
Is Act_Mute signal "L"? (IC303 pin 41)
NO
•Check the connection of IC203 pin 100.
•Replace the IC203(MICOM)
YES
YES
•Check the connection of PN301 Pin 1,4.
•Check the Pick-up Connector.
Replace the IC303(BA5983).
Replace the Pick-Up.

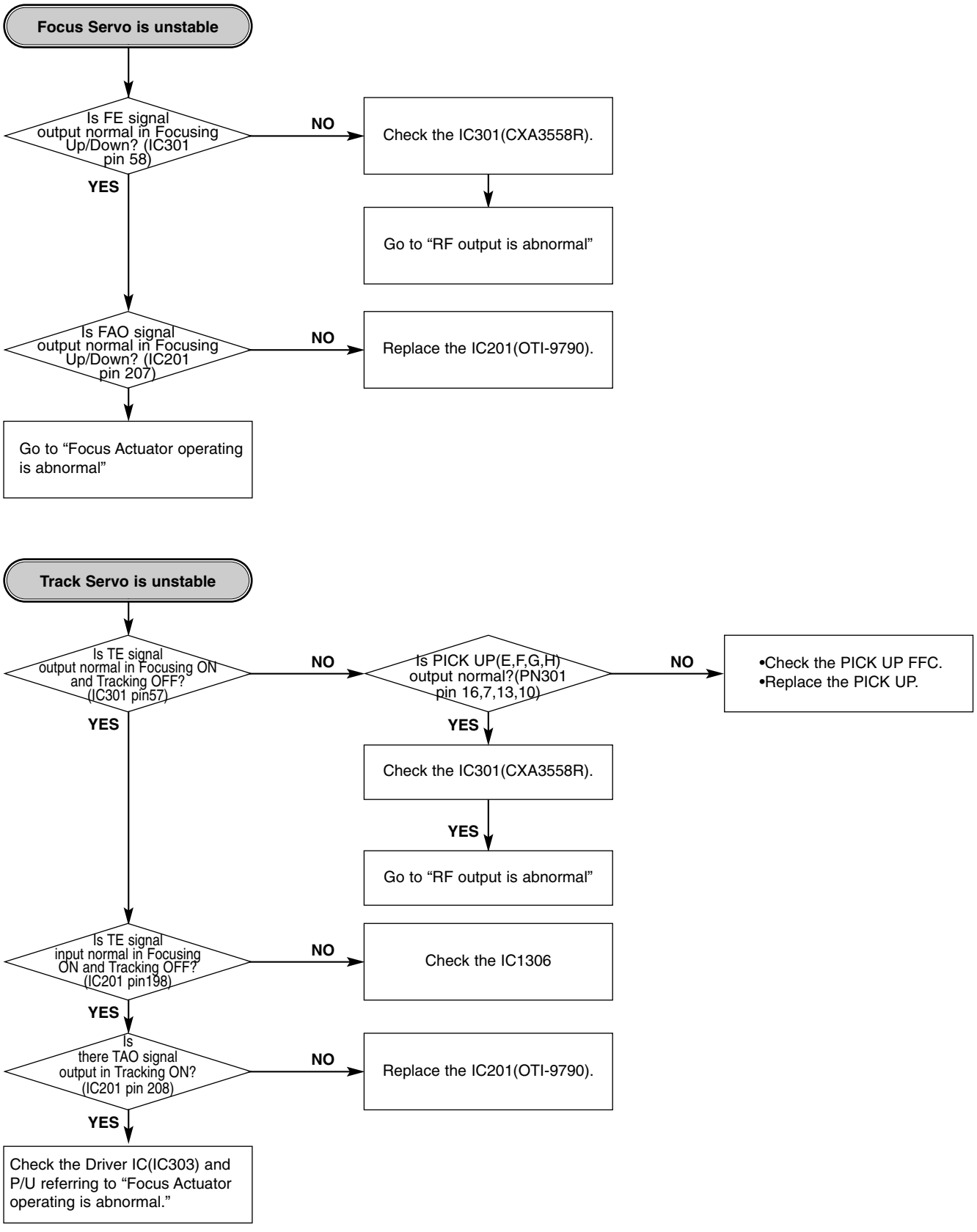

Spindle control is abnormal 1
Does FOCUS Servo operate normally?
NO
Go to "Focus Servo is unstable"
YES
Is there RFAC(EFM)signal input? (IC201 pin 163)
NO
Is there a output normally? (IC301 pin 67, 68)
NO
Replace the IC301(CXA3558R).
YES
YES
Go to "Spindle operating is abnormal"
Replace the IC301.

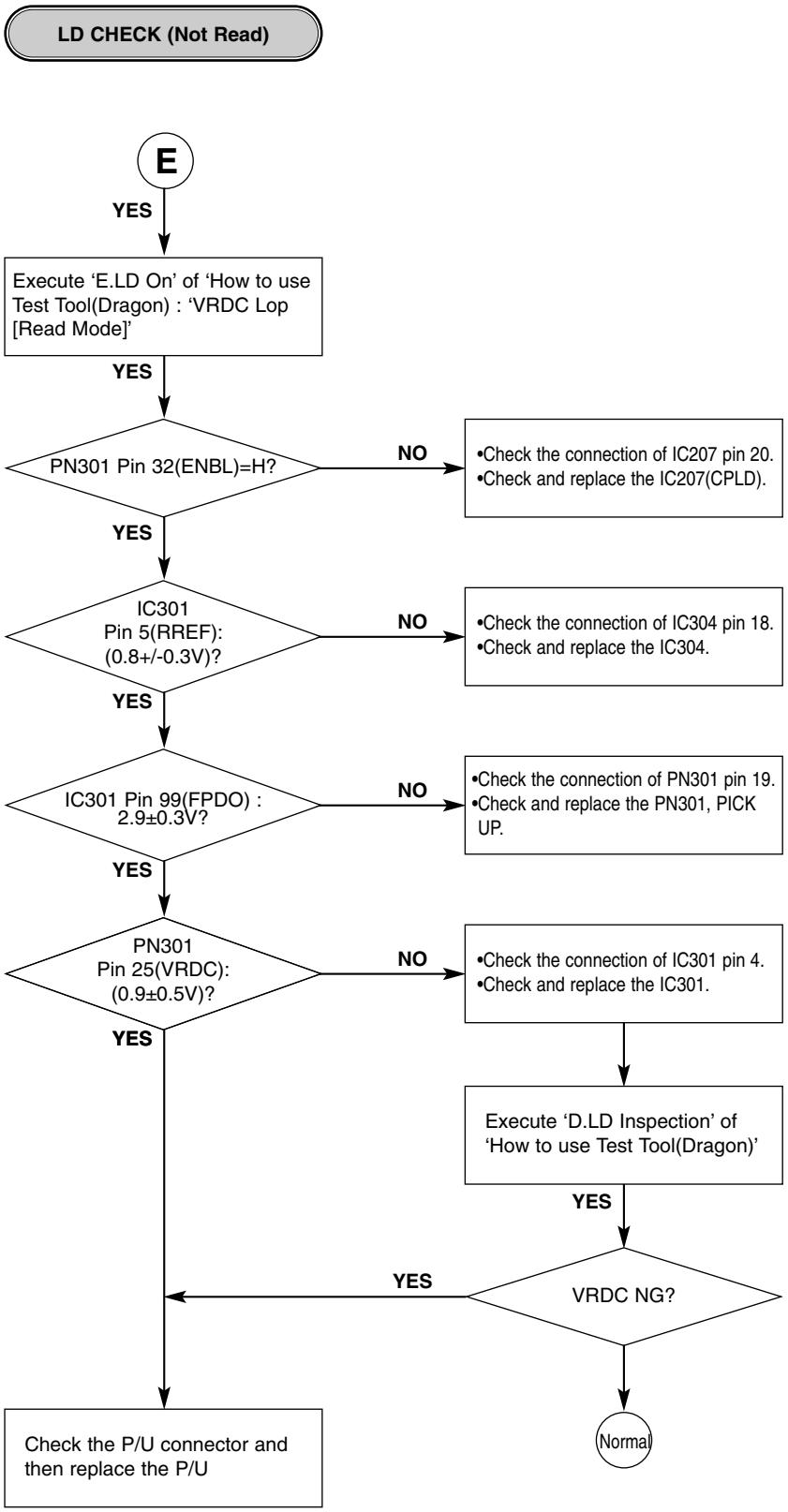

Spindle control is abnormal 2 (CD-ROM Disc)
Is there RRF signal output? (IC301 pin 82)
NO
Go to “RF output is abnormal”
YES
Is there RFDC signal input? (IC301 pin 81)
NO
Replace the IC301.
YES
Does Tracking Servo operate normally?
NO
Go to “Track servo is unstable”
YES
Go to “Disc recognition is abnormal”

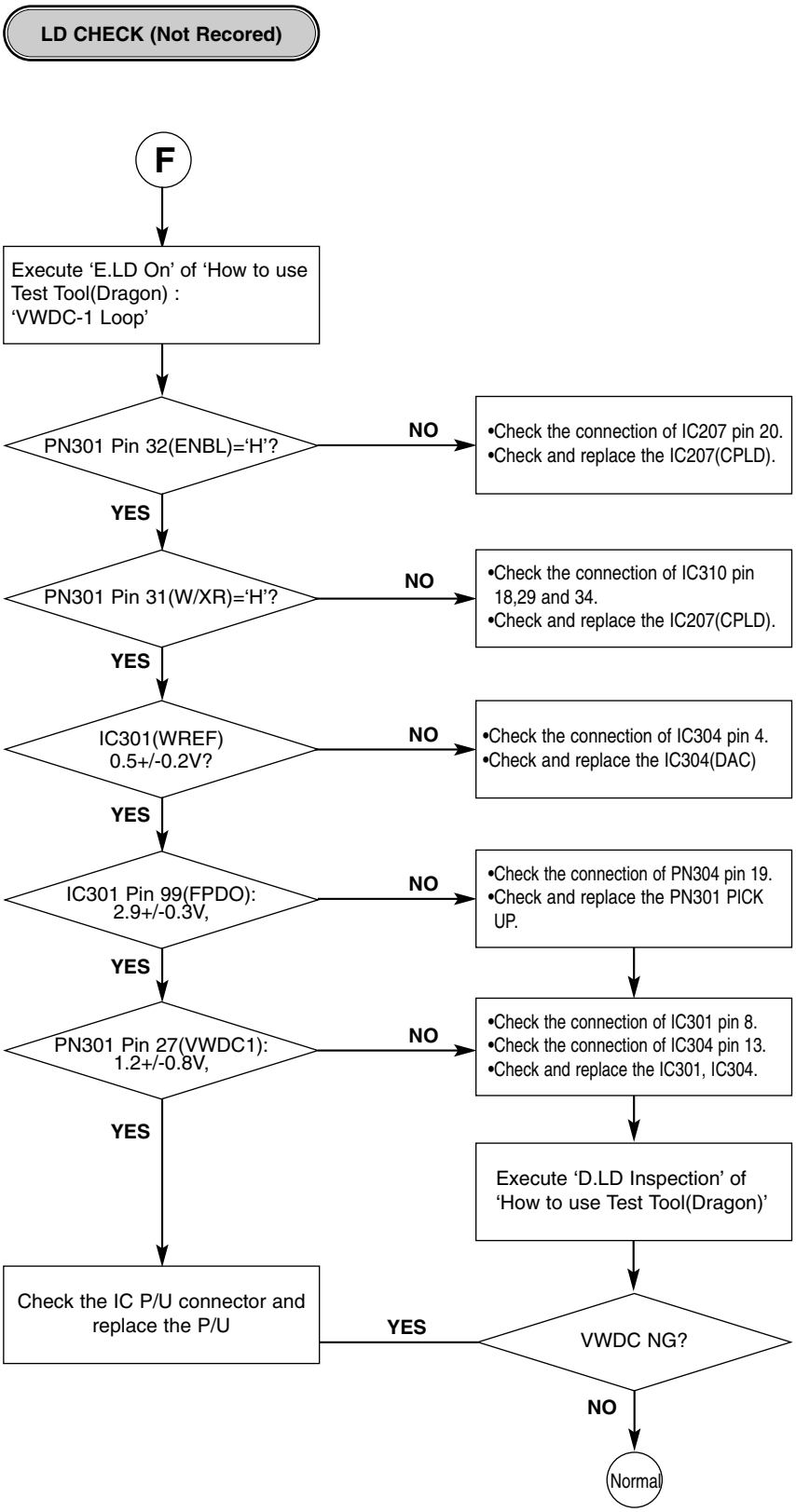

Spindle control is abnormal 3
Is there WBLIN signal input? (IC201 pin 132)
NO
Is there ATFM signal output? (IC301 pin 23)
NO
Go to “RF output is abnormal”
YES
YES
Replace the IC301(CXA3558R).
Is there DMO signal output? (IC201 pin 2)
NO
Replace the IC201(OTI-9790).
YES
Go to “Spindle operating is abnormal”

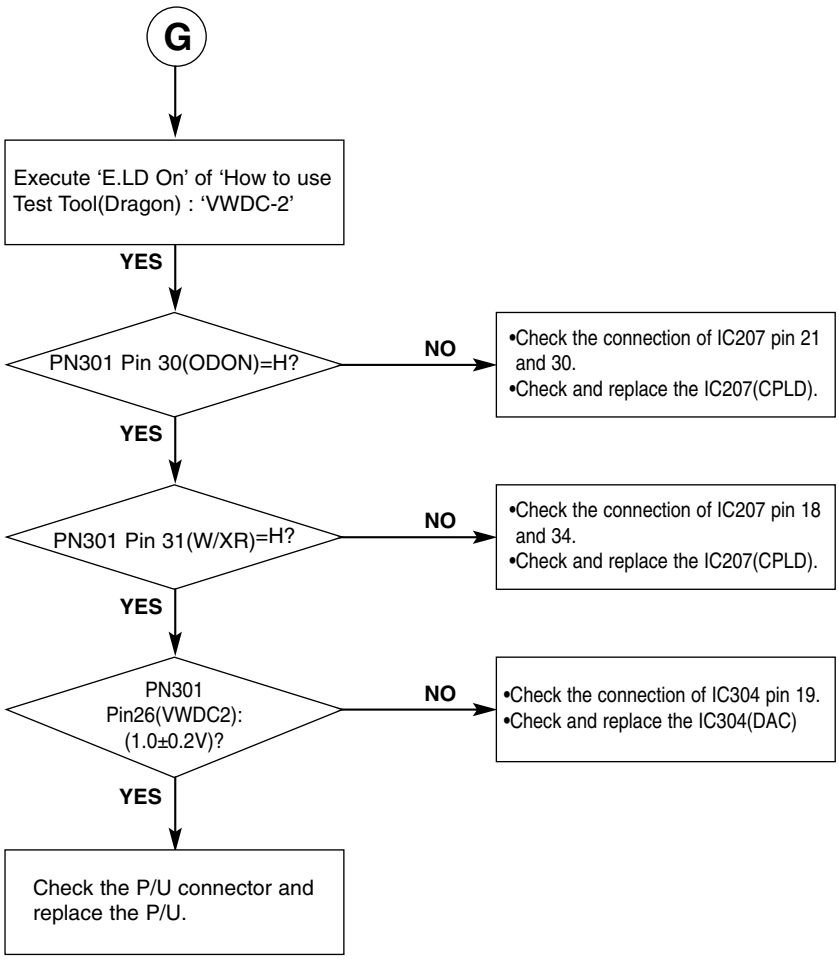

Disc recognition is abnormal
Is there CDR/RW signal input normally?(IC201 pin 33)
NO
Is there RECD1, RECD2 signal output normally? (IC301)
NO
Go to “RF output is abnormal”
YES
YES
Go to “Track Servo is unstable”
Replace IC203 (MICOM)


RF output is abnormal
Is there PICK UP(A,B,C,D) output normally? (PN301 pin 8,9, 14,15)
NO
•Check the PICK UP FFC.
•Replace the PICK UP
NO
Go to “Laser is abnormal”
YES
Is RRF signal output normal?(IC301 pin 82)
•First Recognition try : Over 1.7 Vpp
•Second Recognition try : Over 0.5 Vpp
NO
•Check the connection between PN301 and IC301.
•Replace the IC301(CXA3558R).
YES
OK

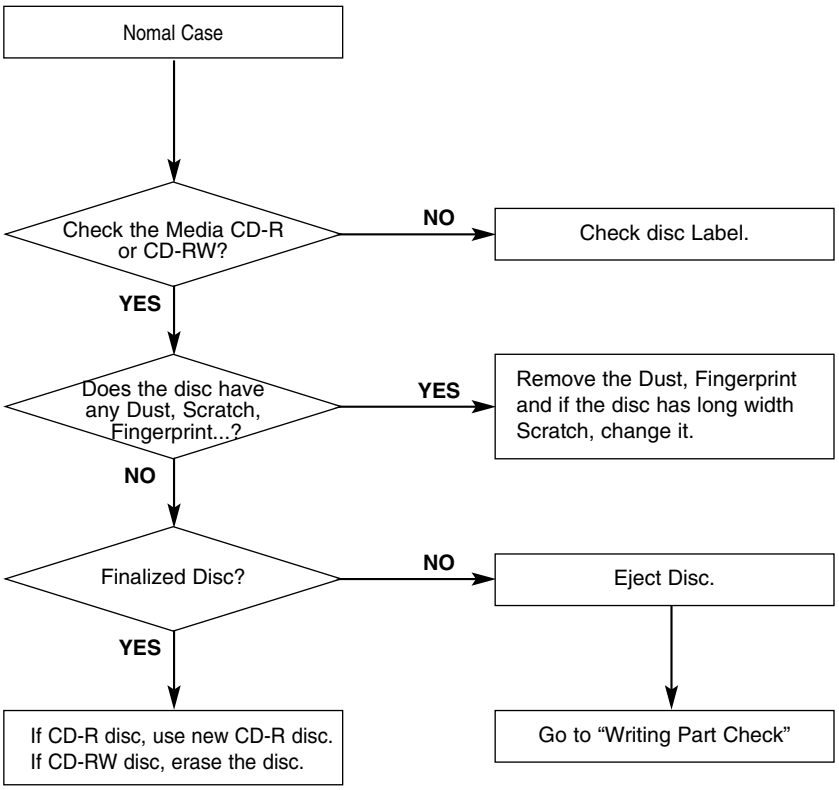

Focus Servo is unstable
Is FE signal output normal in Focusing Up/Down? (IC301 pin 58)
NO
Check the IC301(CXA3558R).
YES
Go to “RF output is abnormal”
Is FAO signal output normal in Focusing Up/Down? (IC201 pin 207)
NO
Replace the IC201(OTI-9790).
Go to “Focus Actuator operating is abnormal”
Track Servo is unstable
Is TE signal output normal in Focusing ON and Tracking OFF? (IC301 pin57)
NO
Is PICK UP(E,F,G,H) output normal?(PN301 pin 16,7,13,10)
NO
•Check the PICK UP FFC.
•Replace the PICK UP.
YES
Check the IC301(CXA3558R).
YES
Go to “RF output is abnormal”
YES
Is TE signal input normal in Focusing ON and Tracking OFF? (IC201 pin198)
NO
Check the IC1306
YES
Is there TAO signal output in Tracking ON? (IC201 pin 208)
NO
Replace the IC201(OTI-9790).
YES
Check the Driver IC(IC303) and P/U referring to “Focus Actuator operating is abnormal.”

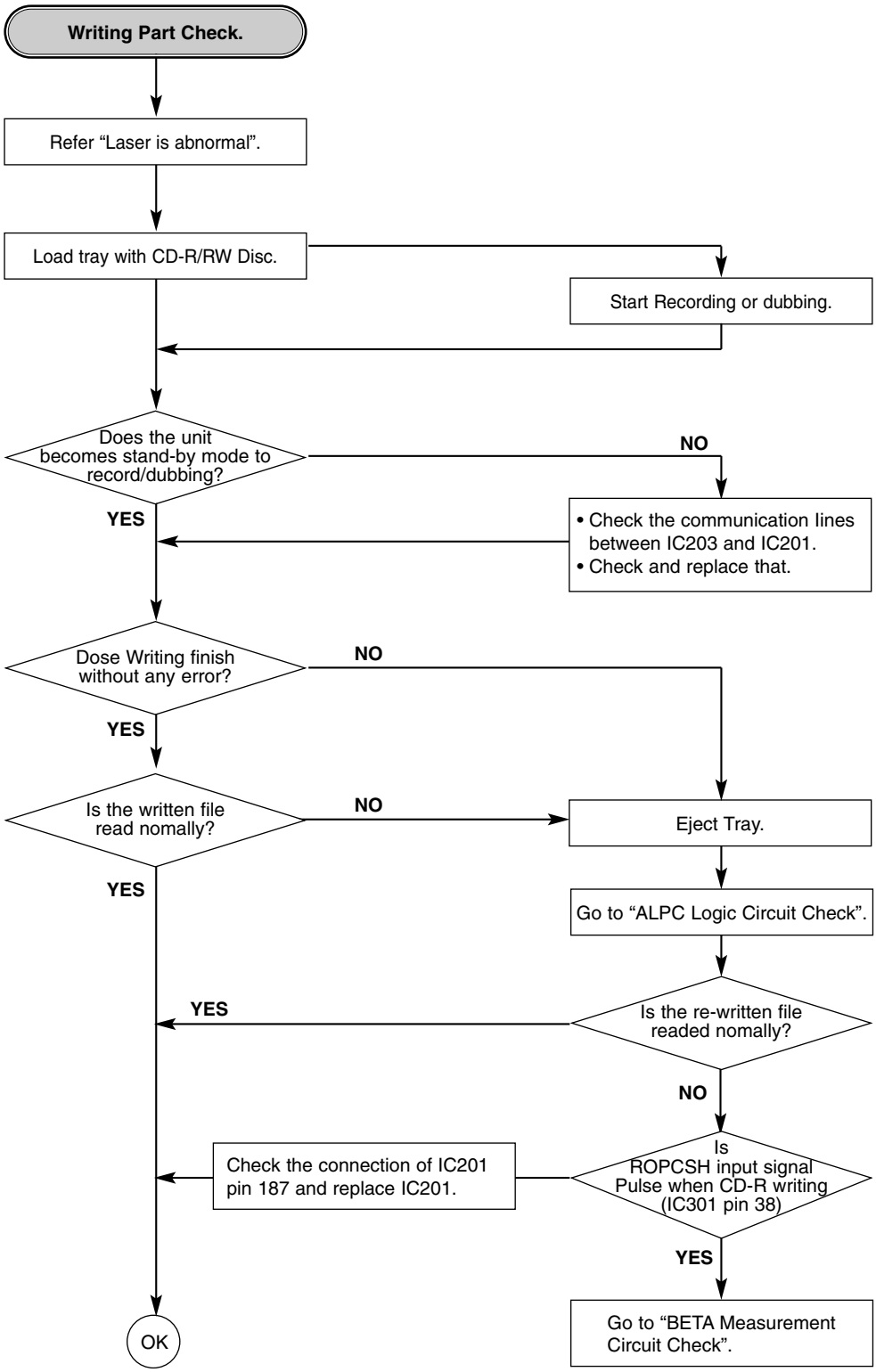

LD CHECK (Not Read)
E
YES
Execute 'E.LD On' of 'How to use Test Tool(Dragon) : 'VRDC Lop [Read Mode]'
YES
PN301 Pin 32(ENBL)=H?
NO
•Check the connection of IC207 pin 20.
•Check and replace the IC207(CPLD).
YES
IC301 Pin 5(RREF): (0.8+/-0.3V)?
NO
•Check the connection of IC304 pin 18.
•Check and replace the IC304.
YES
IC301 Pin 99(FPDO) : 2.9±0.3V?
NO
•Check the connection of PN301 pin 19.
•Check and replace the PN301, PICK UP.
YES
PN301 Pin 25(VRDC): (0.9±0.5V)?
NO
•Check the connection of IC301 pin 4.
•Check and replace the IC301.
YES
Execute 'D.LD Inspection' of 'How to use Test Tool(Dragon)'
YES
VRDC NG?
YES
Check the P/U connector and then replace the P/U
Normal

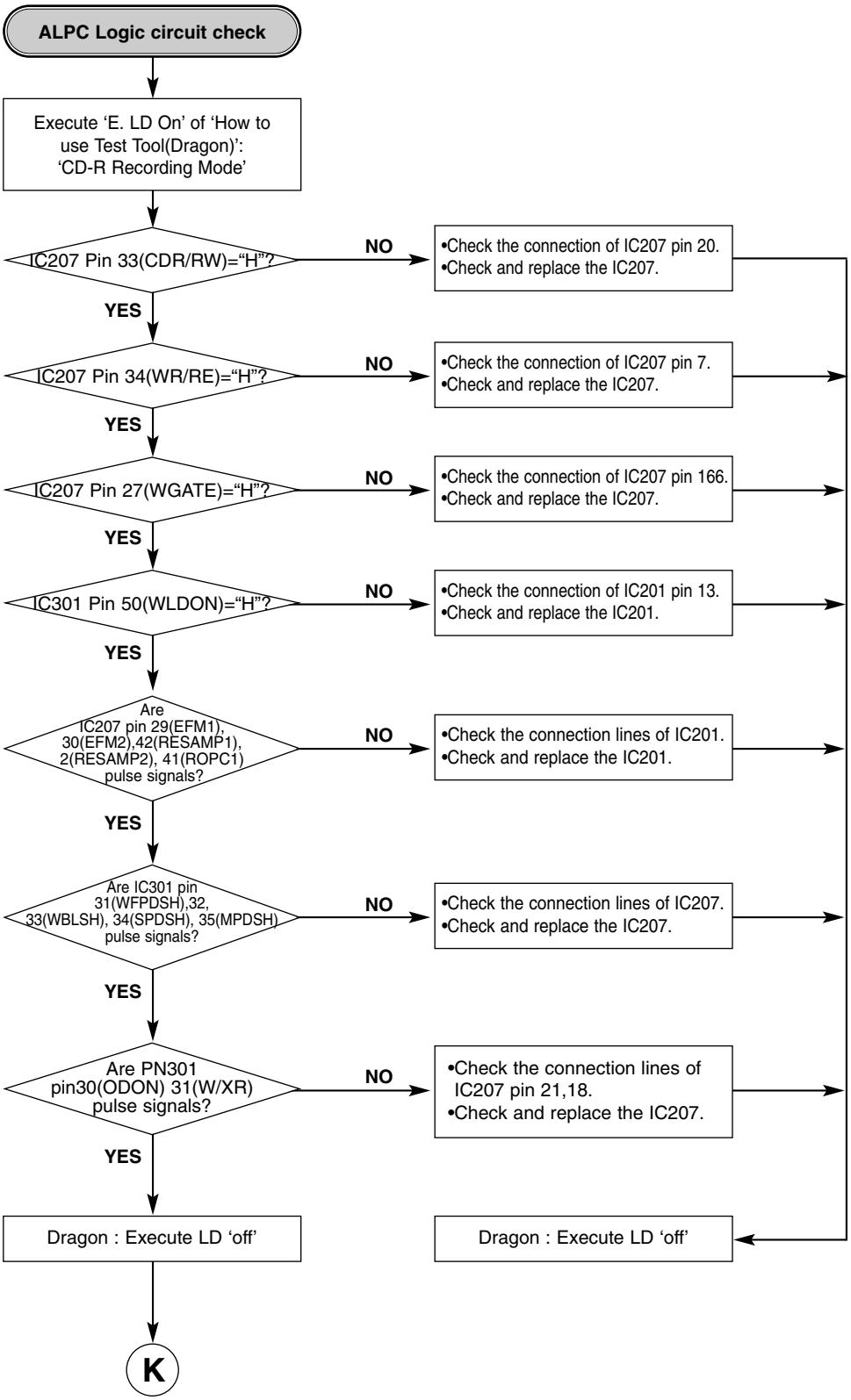

LD CHECK (Not Recored)
F
Execute 'E.LD On' of 'How to use Test Tool(Dragon) : 'VWDC-1 Loop'
PN301 Pin 32(ENBL)='H'?
NO
•Check the connection of IC207 pin 20.
•Check and replace the IC207(CPLD).
YES
PN301 Pin 31(W/XR)='H'?
NO
•Check the connection of IC310 pin 18,29 and 34.
•Check and replace the IC207(CPLD).
YES
IC301(WREF) 0.5+/-0.2V?
NO
•Check the connection of IC304 pin 4.
•Check and replace the IC304(DAC)
YES
IC301 Pin 99(FPDO): 2.9+/-0.3V,
NO
•Check the connection of PN304 pin 19.
•Check and replace the PN301 PICK UP.
YES
PN301 Pin 27(VWDC1): 1.2+/-0.8V,
NO
•Check the connection of IC301 pin 8.
•Check the connection of IC304 pin 13.
•Check and replace the IC301, IC304.
YES
Execute 'D.LD Inspection' of 'How to use Test Tool(Dragon)'
Check the IC P/U connector and replace the P/U
YES
VWDC NG?
NO
Normal

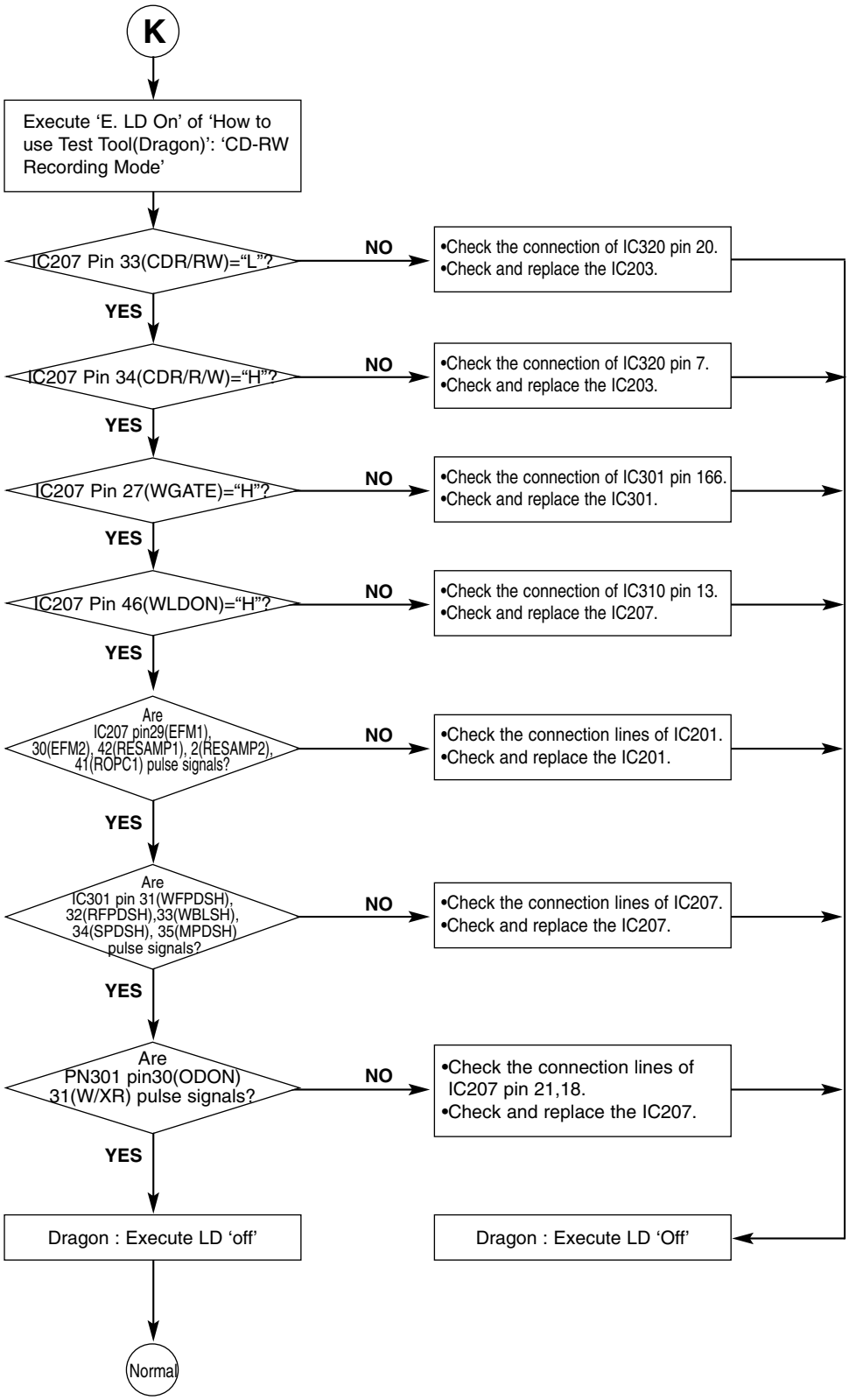

G
Execute 'E.LD On' of 'How to use Test Tool(Dragon) : 'VWDC-2'
YES
PN301 Pin 30(ODON)=H?
NO
•Check the connection of IC207 pin 21 and 30.
•Check and replace the IC207(CPLD).
YES
PN301 Pin 31(W/XR)=H?
NO
•Check the connection of IC207 pin 18 and 34.
•Check and replace the IC207(CPLD).
YES
PN301 Pin26(VWDC2): (1.0±0.2V)?
NO
•Check the connection of IC304 pin 19.
•Check and replace the IC304(DAC)
YES
Check the P/U connector and replace the P/U.

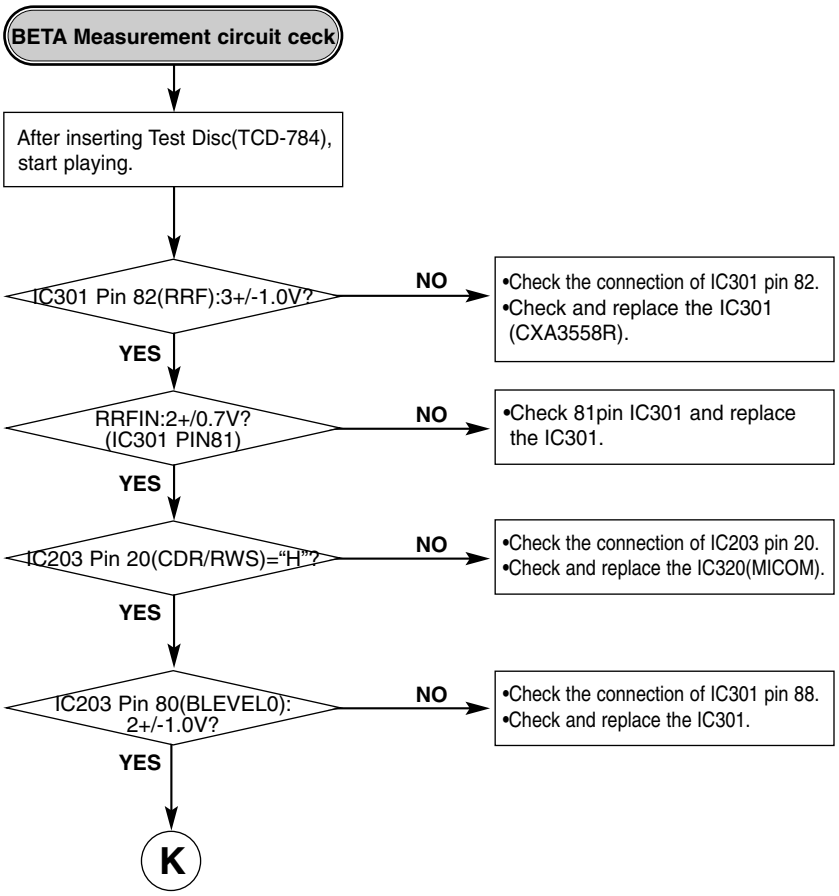
In case of writing fail.




Writing Part Check.
Refer “Laser is abnormal”.
Load tray with CD-R/RW Disc.
Start Recording or dubbing.
Does the unit becomes stand-by mode to record/dubbing?
NO
YES
• Check the communication lines between IC203 and IC201.
• Check and replace that.
Dose Writing finish without any error?
NO
YES
Is the written file read nomally?
NO
Eject Tray.
YES
Go to “ALPC Logic Circuit Check”.
Is the re-written file readed nomally?
YES
NO
Is ROPCSH input signal Pulse when CD-R writing (IC301 pin 38)
Check the connection of IC201 pin 187 and replace IC201.
YES
Go to “BETA Measurement Circuit Check”.
OK


ALPC Logic circuit check
Execute 'E. LD On' of 'How to use Test Tool(Dragon)': 'CD-R Recording Mode'
IC207 Pin 33(CDR/RW)="H"?
NO
•Check the connection of IC207 pin 20.
•Check and replace the IC207.
YES
IC207 Pin 34(WR/RE)="H"?
NO
•Check the connection of IC207 pin 7.
•Check and replace the IC207.
YES
IC207 Pin 27(WGATE)="H"?
NO
•Check the connection of IC207 pin 166.
•Check and replace the IC207.
YES
IC301 Pin 50(WLDON)="H"?
NO
•Check the connection of IC201 pin 13.
•Check and replace the IC201.
YES
Are IC207 pin 29(EFM1), 30(EFM2),42(RESAMP1), 2(RESAMP2), 41(ROPC1) pulse signals?
NO
•Check the connection lines of IC201.
•Check and replace the IC201.
YES
Are IC301 pin 31(WFPDSH),32, 33(WBLSH), 34(SPDSH), 35(MPDSH) pulse signals?
NO
•Check the connection lines of IC207.
•Check and replace the IC207.
YES
Are PN301 pin30(ODON) 31(W/XR) pulse signals?
NO
•Check the connection lines of IC207 pin 21,18.
•Check and replace the IC207.
YES
Dragon : Execute LD 'off'
Dragon : Execute LD 'off'
K

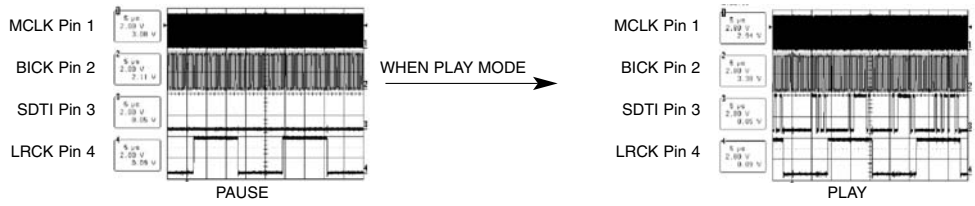

K
Execute 'E. LD On' of 'How to use Test Tool(Dragon)': 'CD-RW Recording Mode'
IC207 Pin 33(CDR/RW)="L"?
NO
•Check the connection of IC320 pin 20.
•Check and replace the IC203.
YES
IC207 Pin 34(CDR/R/W)="H"?
NO
•Check the connection of IC320 pin 7.
•Check and replace the IC203.
YES
IC207 Pin 27(WGATE)="H"?
NO
•Check the connection of IC301 pin 166.
•Check and replace the IC301.
YES
IC207 Pin 46(WLDON)="H"?
NO
•Check the connection of IC310 pin 13.
•Check and replace the IC207.
YES
Are IC207 pin29(EFM1), 30(EFM2), 42(RESAMP1), 2(RESAMP2), 41(ROPC1) pulse signals?
NO
•Check the connection lines of IC201.
•Check and replace the IC201.
YES
Are IC301 pin 31(WFPDSH), 32(RFPDSH),33(WBLSH), 34(SPDSH), 35(MPDSH) pulse signals?
NO
•Check the connection lines of IC207.
•Check and replace the IC207.
YES
Are PN301 pin30(ODON) 31(W/XR) pulse signals?
NO
•Check the connection lines of IC207 pin 21,18.
•Check and replace the IC207.
YES
Dragon : Execute LD 'off'
Dragon : Execute LD 'Off'
Normal


BETA Measurement circuit ceck
After inserting Test Disc(TCD-784), start playing.
IC301 Pin 82(RRF):3+/-1.0V?
NO
•Check the connection of IC301 pin 82.
•Check and replace the IC301 (CXA3558R).
YES
RRFIN:2+/0.7V? (IC301 PIN81)
NO
•Check 81pin IC301 and replace the IC301.
YES
IC203 Pin 20(CDR/RWS)="H"?
NO
•Check the connection of IC203 pin 20.
•Check and replace the IC320(MICOM).
YES
IC203 Pin 80(BLEVEL0): 2+/-1.0V?
NO
•Check the connection of IC301 pin 88.
•Check and replace the IC301.
YES
K

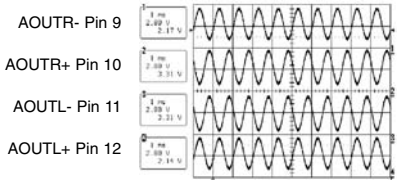
WAVEFORM(I/O)

★ PLAYBACK MODE

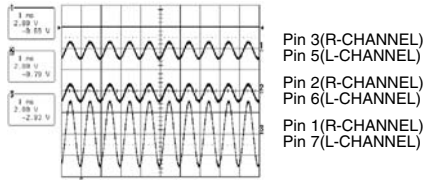
1. IC7V1(DAC) Pin1(MCLK), Pin2(BICK), Pin3(SDTI), Pin4(LRCK)



2. IC7VA(DAC) Pin9, Pin10, Pin11, Pin12 OUTPUT PIN

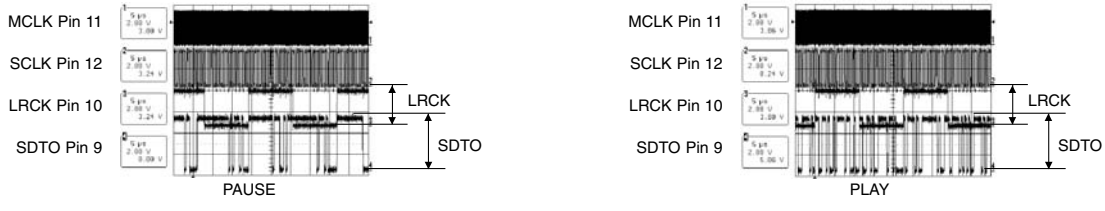


3. IC704(OP-AMP) Pin3(input), Pin2(input), Pin1(output)

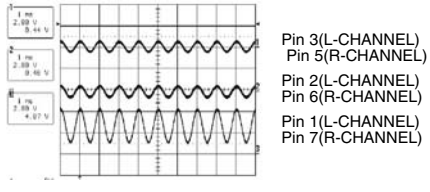


★ EXT.RECORD(ANALOG) MODE

4. IC7V2(ADC) Pin11(MCLK), Pin12(SCLK), Pin10(LRCK), Pin9(STDO)

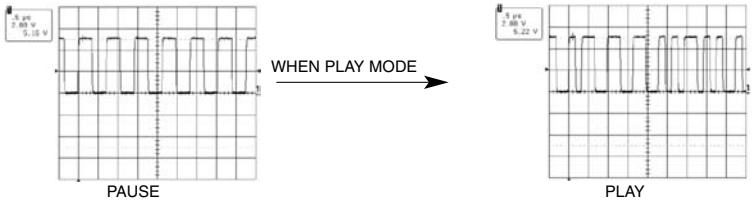


5. IC702(OP-AMP) Pin3(input), Pin2(input), Pin1(output)



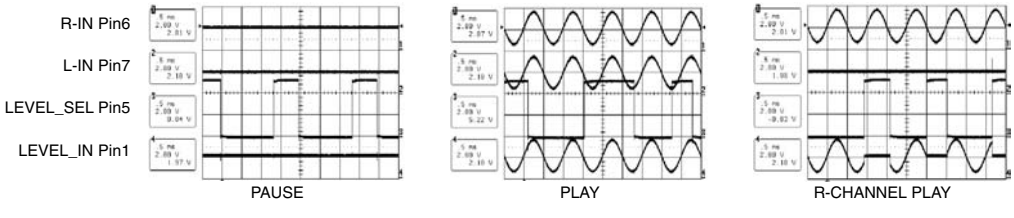
★ EXT.RECORD(OPTICAL) MODE

6. IC706 Pin10(Optical in)

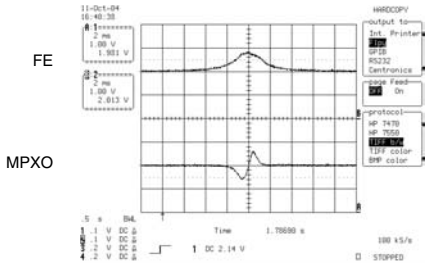


★ AUDIO LEVEL METER

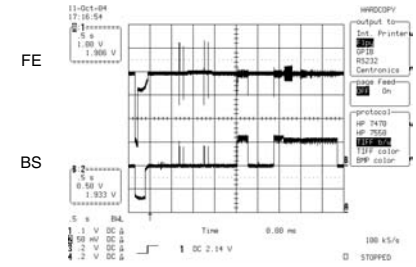
7. IC703 Pin6(R-in), Pin7(L_in), Pin5(Level Select), Pin1(A_LEVEL_IN)



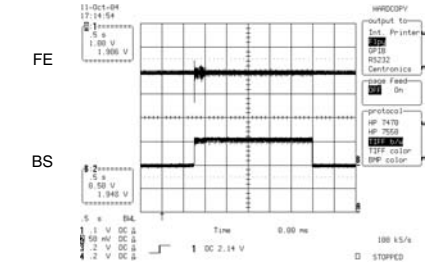
WAVEFORM(RW)



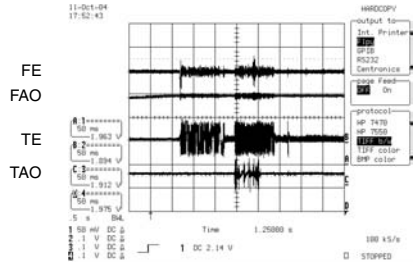
DISC DETECTION
IC301 PIN58(FE), PIN19(MPXO)



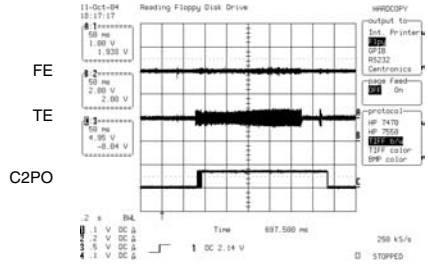
TOC
IC301 PIN58(FE), IC201 PIN201(BS)



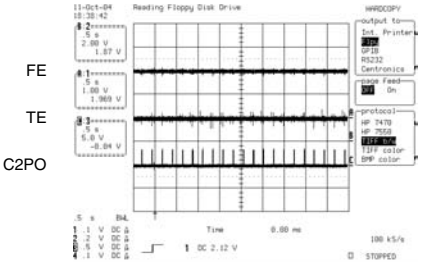
PLAY / STOP
IC301 PIN58(FE), IC201 PIN201(BS)



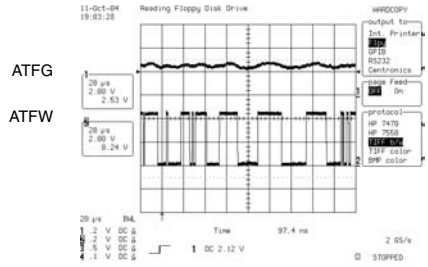
PLAY / STOP
IC301 PIN58(FE), IC201 PIN207(FAO)
IC301 PIN57(TE), IC201 PIN208(TAO)



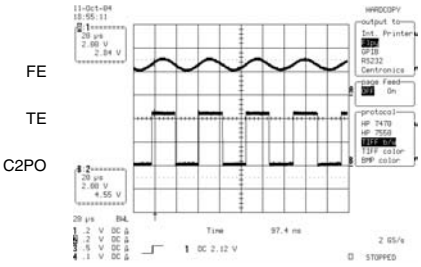
TRACK JUMP
IC301 PIN58(FE), IC301 PIN57(TE)
IC201 PIN147(C2P0)



PLAYBACK MODE (DEFECT DISC)
IC301 PIN58(FE), IC301 PIN57(TE)
IC201 PIN147(C2P0)

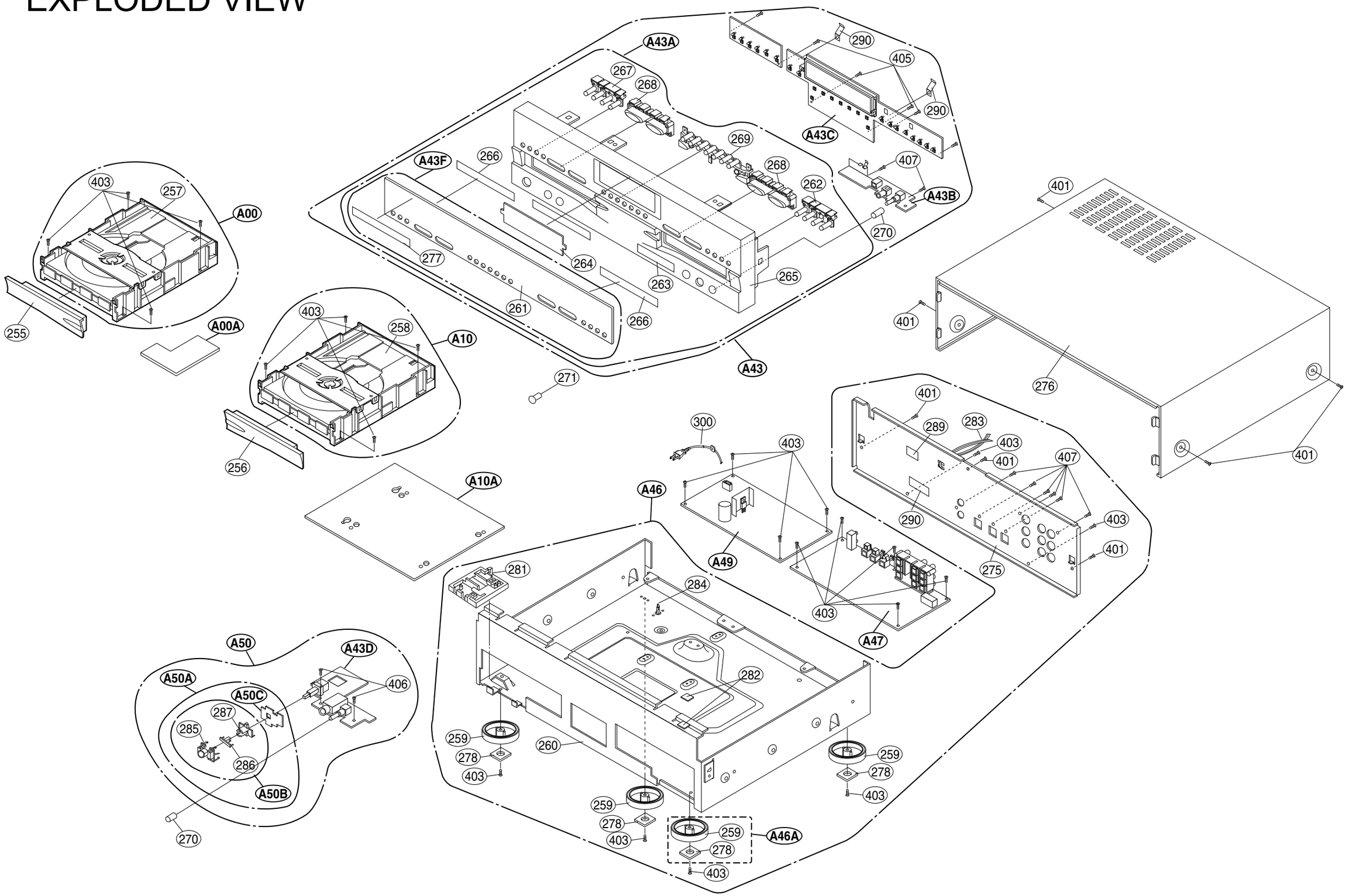


PLAYBACK MODE (CDDA DISC)
IC301 PIN23(ATFW), IC301 PIN30(ATFG)

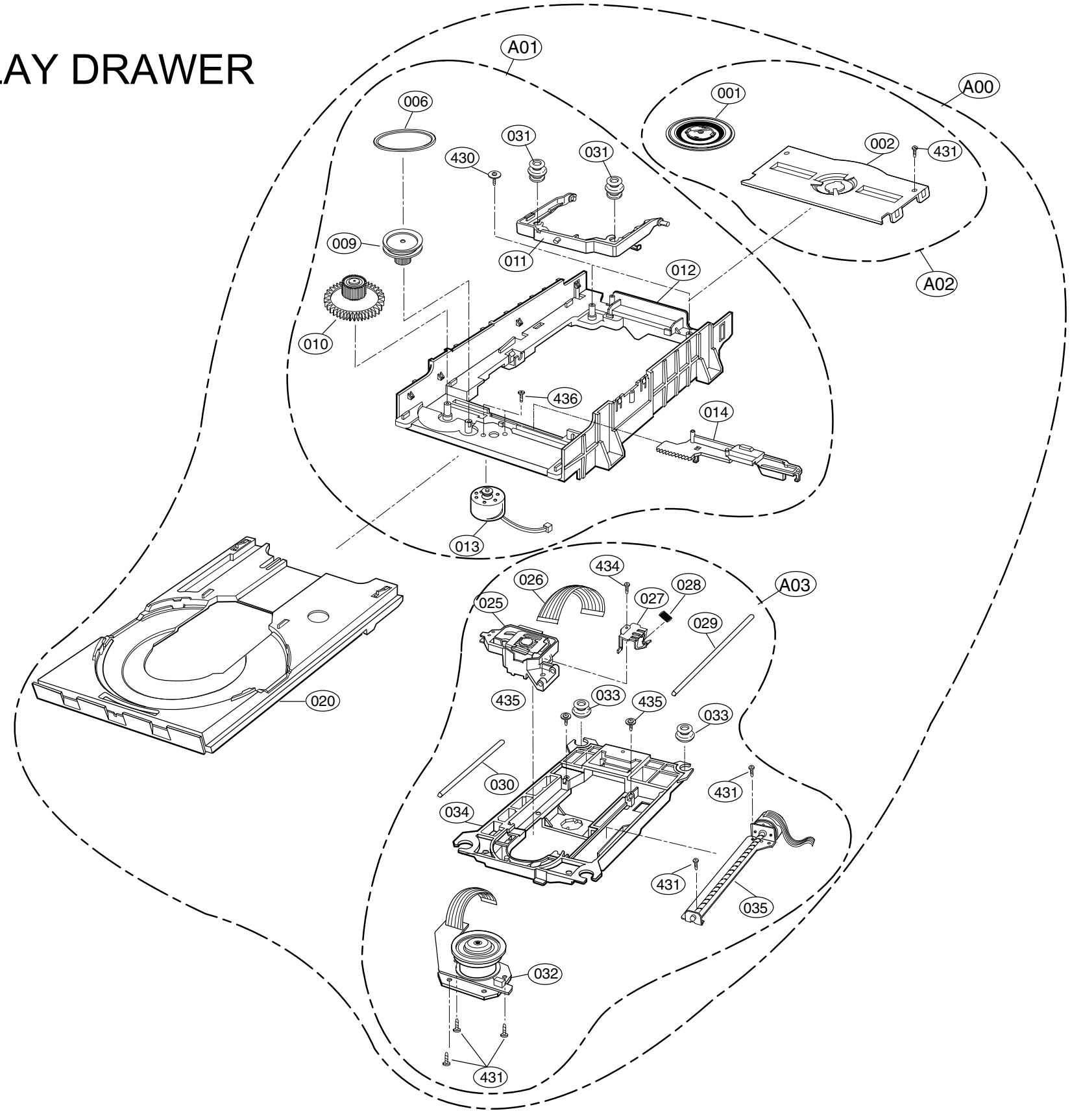


PLAYBACK MODE (R, RW DISC)
IC301 PIN23(ATFW), IC301 PIN30(ATFG)

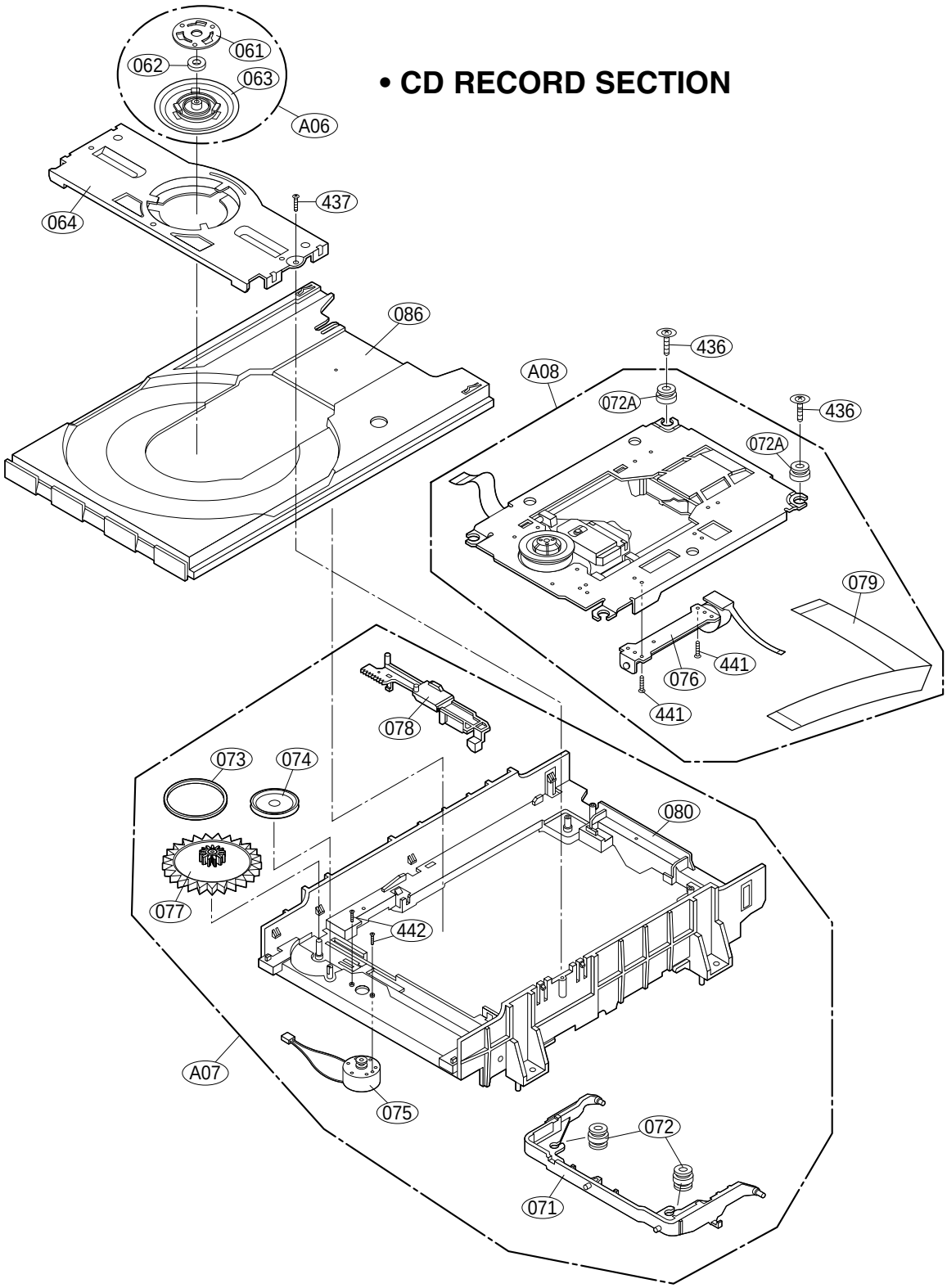
EXPLODED VIEW



CD PLAY DRAWER



• CD RECORD SECTION



MECHANICAL PARTS LIST

MODELS:(A)CDR25, (B)CDR26 H/K

.MECHANICAL SECTION

NSP:Not Service Part

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION								
		A00	6721R-W672A		O	DECK ASSEMBLY,AUDIO	ADR-670 P+PCB	
		A00	6721R-W674A	O		DECK ASSEMBLY,AUDIO	CDP ASSY + DECK	
		A00A	6871R-7014A	O	O	PWB(PCB) ASSEMBLY,TOTAL	ADR-670 AA1US MD-SUB	
		A01	4405RHD004A	O	O	MECHANISM ASSY	MAIN LOADING 700 ACDR	
		A02	4931RH0002A	O	O	HOLDER ASSEMBLY	CLAMP 800	
		A03	4405RHD007B	O	O	MECHANISM ASSEMBLY	PU UNIT 800P ACDR	
		A06	4861RH0003A	O	O	CLAMP ASSEMBLY	DISC 800	
		A07	4405RHD004A	O	O	MECHANISM ASSY	MAIN LOADING 700 ACDR	
		A08	4405RHD008A	O	O	MECHANISM ASSEMBLY	PU UNIT 800RW ACDR	
		A10	6721R-0765A	O	O	DECK ASSEMBLY,AUDIO	RW ASSY + DECK	
		A10A	6871R-7020A	O	O	PWB(PCB) ASSEMBLY,TOTAL	ADR-680 ALL RW	
PARTS SECTION								
		001	4861RH0003A	O	O	CLAMP ASSEMBLY	DISC 800	
		002	4830R-0209A	O	O	HOLDER	CLAMO (CDM-700)	
		006	4400H-1009A	O	O	BELT	GM-RT1332A	
		009	4470R-0055A	O	O	GEAR	PULLEY	
		010	4470R-0056A	O	O	GEAR	LOADING	
		011	3040R-0035A	O	O	BASE	UP/DOWN (CDM-700)	
		012	3040R-0034A	O	O	BASE	MAIN (CDM-700)	
		013	4681RHA002A	O	O	MOTOR ASSY	LOADING	
		014	4974R-0029A	O	O	GUIDE	UP/DOWN (CDM-700)	
		020	3390R-0009A	O	O	TRAY	DISC (CDM-700, BLACK)	
		025	6716S-E001A	O	O	PICK UP,CD	SF-P151EXVA SANYO ROM ACDR	
		026	6850R-JQ24A	O	O	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 17	
		027	4974R-0031A	O	O	GUIDE	FEED (CDM-700P, MATSUSHITA)	
		028	4970H-1086A	O	O	SPRING	FEED(GM-RT1332A)	
		032	4680R-C009A	O	O	MOTOR(MECH)	SPINDLE MSDH-C005A LGIT CDP	
		033	5040R-0053B	O	O	RUBBER	REAR (CDM-800) GREY	
		034	3040R-0036A	O	O	BASE	P/U (CDM-700)	
		035	4680R-E004A	O	O	MOTOR(MECH)	FEEDING MSP-C-LM01A MASTER PRE	
		061	3300R-0547A	O	O	PLATE	CLAMP	NSP
		062	5016H-1016B	O	O	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		063	4860R-0015A	O	O	CLAMP	LOWER(CDM-800)	NSP
		064	4930R-0209A	O	O	HOLDER	CLAMP (CDM-700)	
		071	3040R-0035A	O	O	BASE	UP/DOWN (CDM-700)	
		072	5040R-0054A	O	O	RUBBER	FRONT (CDM-700)	
		072A	5040R-0053A	O	O	RUBBER	REAR (CDM-700)	
		073	4400H-1009A	O	O	BELT	GM-RT1332A	
		074	4470R-0055A	O	O	GEAR	PULLEY	
		075	4681RHA002A	O	O	MOTOR ASSY	LOADING	
		077	4470R-0056A	O	O	GEAR	LOADING	
		078	4974R-0029A	O	O	GUIDE	UP/DOWN (CDM-700)	
		079	6850HD4P16C	O	O	CABLE,FLEXIBLF	SFBNCD-TN2 BANDO UL20624 0.5MM	
		080	3040R-0034A	O	O	BASE	MAIN (CDM-700)	
		086	3390R-0009A	O	O	TRAY	DISC (CDM-700,BLACK)	
SCREW								
		403	353-046N	O	O	SCREW,DRAWING	SPECIAL(3X8 BK.)	
		403	353-051G	O	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		405	353-051A	O	O	SCREW	SPECIAL	
		406	1TRL0302016	O	O	SCREW TAPPING,BRIZER HEAD	D 3.0 L 6.0 MSWR3/(BK)	
		407	353-046K	O	O	SCREW	SPECIAL (3X10 B.K)	
		407	353-051AAAA	O	O	SCREW	TAP/T,WASHER 3X10 FZY,H/D:9.5	
		431	1SZZH-1007B	O	O	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		434	1SZZH-1011B	O	O	SCREW,DRAWING	+ D1.7 6MM SWRCH16A/NIY 3.5MM	
		435	1SZZH-1004A	O	O	SCREW,	+ D1.7 5MM SWRCH16A/ZNY 3.5MM	
		439	1SZZH-1020C	O	O	SCREW,	+ D2.0 4.5MM SWRCH16A/ZNY 4MM	
		442	4000H-1006B	O	O	SCREW,DRAWING	+ D1.7 4.5MM SWRCH16A/ZNY 4MM	
.CABINET & MAIN FRAME SECTION								
ASSEMBLY PARTS SECTION								
		A43	3501R-7023A		O	BOARD ASSEMBLY	PNL ASSY	
		A43	3501R-7023B	O		BOARD ASSEMBLY	PNL ASSY	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		A43A	3721R-F171E		O	PANEL ASSEMBLY,FRONT	FRONT (ADR680 USA HZ)	
		A43A	3721R-F171F	O		PANEL ASSEMBLY,FRONT	FRONT (ADR680 EUROPE HZ)	
		A43B	6871RU7024A	O	O	PWB(PCB) ASSEMBLY,SUBSET(AUDIO	ADR-680 ALL DIGITAL JACK	
		A43C	6871RF7023A	O	O	PWB(PCB) ASSEMBLY,FRONT(AUDIO)	ADR-680 JA1UHH (USA)	
		A43F	3790R-P022B	O		WINDOW	FL ASSY ADR 680 EUROPE	
		A43F	3790R-P022C		O	WINDOW	FL ASSY ADR 680 USA	
		A46	3141R-0021L		O	CHASSIS ASSEMBLY	ADR-680 USA	
		A46	3141R-0021M	O		CHASSIS ASSEMBLY	ADR-680 EUROPE	
		A46A	3610RB0001F	O		FOOT	BOTTOM ASSY(ADR-700)	
		A46A	3610RB0001G		O	FOOT	BOTTOM ASSY(ADR-680.USA)	
		A47	6871R-7021A	O	O	PWB(PCB) ASSEMBLY,TOTAL	ADR-680 ALL I/O	
		A49	3501R-7022A		O	BOARD ASSEMBLY	POWER BOARD ASSY	
		A49	3501R-7022B	O		BOARD ASSEMBLY	ADR-680 POWER BOARD ASSY TOTAL	
PARTS SECTION								
		255	3580R-T012A	O		DOOR	PLAY TRAY(AADR700.KTH1K)	
		255	3580R-T012B		O	DOOR	PLAY TRAY(ADR680.USA)	
		256	3580R-T011B		O	DOOR	ACDR TRAY (ADR680.USA)	
		257	6721RJ0321A	O	O	DECK ASSEMBLY,AUDIO	CDM-800P(CKD)	
		258	6721RJ0322A	O	O	DECK ASSEMBLY,AUDIO	CDM-800RW(CKD)	
		259	3610S-0192A	O		FOOT	BOTTOM(ADR-600 KTH1)	
		259	3610S-0192G		O	FOOT	ADR-680 (USA)	
		260	3140R-0021C	O	O	CHASSIS	MAIN(ADR-680) PRESS	
		261	3790R-D223A	O		WINDOW,DECO	DECORATION (ADR-680_CDR25_EURO	
		261	3790R-D223B		O	WINDOW,DECO	DECORATION (ADR-680_CDR26_USA)	
		262	4940R-T024A	O	O	KNOB	ACDR 7K(AADR700.KTH1K)	
		264	3300R-P008A	O	O	PLATE	FL(ADR-700)	
		265	3720R-M002C		O	PANEL,AUDIO	FRONT(ADR680.USA)	
		265	3720R-M002D	O		PANEL,AUDIO	FRONT(ADR680.EUROPE)	
		266	3300R-X020A	O	O	PLATE	LED 8K(ADR-700)	
		267	4940R-T022A	O	O	KNOB	PLAY 4K(AADR700 KTH1K)	
		268	4940R-T023A	O	O	KNOB	SEESAW 4K(AADR700.KTH1K)	
		269	4940R-T019A	O		KNOB	REC 8KEY(AADR700.KTH1K)	
		269	4940R-T019B		O	KNOB	REC 8KEY(ADR680.USA)	
		270	4940R-V013A	O	O	KNOB	VOLUME (AADR700.KTH1K)	
		271	3550R-0339A	O	O	COVER	OPTICAL(ADR-700)	
		275	3720R-Z012F		O	PANEL	BACK(ADR680.USA)	
		275	3720R-Z012G	O		PANEL	BACK(ADR680.EUROPE)	
		276	3110R-0218A	O	O	CASE	TOP(AADR700.KTH1K)	
		277	3846S-0208A	O		MARK	HARMAN KARDON BADGE(ADR-600 KT	
		277	3846S-0208B		O	MARK	CD PLAY AL BADGE(CDR-600 AH1)	
		278	4766R-0003B	O	O	FELT	19.7*19.7 BLACK	
		281	4930R-0219B	O	O	HOLDER	POWER(ADR-700 FOR CE)	
		283	327-013C	O	O	CLAMP	CORD	NSP
		284	322-001E	O	O	SUPPORTER	SUPPORTER PWB DABS 16R	
		286	4510R-0028A	O	O	LEVER	POWER(AADR700)	
		287	3680R-A002A	O	O	LENS	POWER(AADR700.KTH1K)	
		290	3300R-0211A	O	O	PLATE	TIMER GND(DVD-2200'S)	
		300	6410RAHS02Z		O	POWER CORD	AP-10W NI SP2 CORE 80 STP AWIA	
		300	6410RCHS02Z	O		POWER CORD	EP11 LTFZ-2F 2*0.75 EMI OR AIW	
SCREW								
		454	1SZZH-1005B	O	O	SCREW,	+ D1.7 3MM SWRCH16A/NIY 3MM 0.	
.PACKING & ACCESSORY SECTION								
		801	3829RDT005S		O	MANUAL ASSEMBLY,OWNERS	O/M ASSY ADR-680 JA1UHH H/KAR	
		801	3829RDT005T	O		MANUAL ASSEMBLY,OWNERS	O/M ASSY ADR-680 JA3FHH H/KAR	
		802	3890R-C050A		O	BOX,MASTER	ADR-680 FOR US - 1	
		802	3890R-C050B	O		BOX,MASTER	ADR-680 EU - 1	
		803	3920R-E029A	O	O	PACKING,CASING	ADR-710 0.02 82 EPS 8 900 1800	
		804	3880SCS001F	O	O	BAG	HDPE 550 600 0.5 ACDR(HZ)	NSP
		808	534-002C	O	O	BATTERY,MANGANESE	AAM UM-3 SEOTONG 1-5 V - LOL 1	
		850	3008R-0004A	O	O	DISC	CD-R HARMAN KARDON(2ND)	
		851	564-036D	O	O	PLUG CONTACT CORD,PHONE	PHONE 1.5MZ 1185#26	
		852	564-036J	O	O	CORD	DIGIATL 1.5M 1365#30 ORANGE N	
.REMOTE CONTROL SECTION								
		900	6711R1Z017E	O	O	REMOTE CONTROLLER ASSEMBLY	HANGO 43KEY ADR-680 HARMAN KAR	

ELECTRICAL PARTS LIST

(A) CDR25

(B) CDR26

.ELECTRICAL SECTION

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
CAPACITOR								
		C100	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C101	624-088F	O	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C102	624-088F	O	O	CAPACITOR,DRAWING	PCX2 275V 0.1UF,M (PILKO)	
		C103	624-082C	O	O	CAPACITOR,AL.ELECTROLYTIC	100MF/400V SHL SMPS S/Y	
		C104	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C105	0CQ1031Y519	O	O	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C106	624-087B	O	O	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	
		C107	0CG3310U510	O		CAPACITOR,FIXED CERAMIC(TEMP.C	330PF D 400V 10% B(Y5P) R	
		C108	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C109	0CQ4732K409	O	O	CAPACITOR,FIXED FILM	0.047UF S 50V J PE TP	
		C110	0CE4754K638	O	O	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C111	0CE4754K638	O	O	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C113	0CG3320U630	O		CAPACITOR,SEMI CERAMIC	3300 PF 400V M E R(NK,AD,SD)	
		C113	624-086B		O	CAPACITOR	AC-CON 103/400V SMPS NEW-KORE	
		C114	624-086B		O	CAPACITOR	AC-CON 103/400V SMPS NEW-KORE	
		C115	0CE2276D618	O	O	CAPACITOR,FIXED ELECTROLYTIC	220UF SMS,SG 10V 20% FL TP 5	
		C116	0CE108BF630	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C117	0CE1086C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C118	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C119	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C120	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C121	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C123	0CE108BF630	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C124	0CE1086C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C126	0CE108BF630	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C127	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C128	0CQ4732K409	O	O	CAPACITOR,FIXED FILM	0.047UF S 50V J PE TP	
		C131	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C132	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C137	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C138	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C141	0CE1076F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 16V 20% FM5 TP 5	
		C201	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C202	0CH4100K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C207	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C208	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C209	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C210	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C211	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C212	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C213	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C214	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C215	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C216	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C217	0CH1472K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	4700PF 50V 10% B(5YP) 1608 R/T	
		C218	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C219	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C220	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C221	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C222	0CH1332K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% B(5YP) 1608 R/T	
		C223	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C224	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C225	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C244	0CH1153H562	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.015UF 25V K X7R(X) 1508 R/TP	
		C245	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C246	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C247	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C248	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C249	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C250	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C251	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C252	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C253	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C254	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C255	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C256	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C258	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C259	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C260	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C261	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C262	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C263	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C264	0CH1153H562	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.015UF 25V K X7R(X) 1508 R/TP	
		C265	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C266	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C268	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C269	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C270	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C271	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C277	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C279	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C280	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C281	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C285	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C290	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C291	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C2A1	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C301	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C302	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C303	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C304	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C305	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C306	0CH4470K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C307	0CH4270K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C308	0CH4270K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C309	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C310	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C311	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C312	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C315	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C316	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C317	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C318	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C319	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C320	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C321	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C322	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C325	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C326	0CH1222K512	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C327	0CH1222K512	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C328	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C329	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C330	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C331	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C332	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C333	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C335	0CH7106C611	O	O	CAPACITOR,FIXED TANTALUM	10UF 6.3V 20% 3216 TP(-)	
		C336	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C337	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C338	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C339	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C340	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C341	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C342	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C343	0CH1154F516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.15UF 16V 10% B(5YP) 2012 R/T	
		C344	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C345	0CH1153H562	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.015UF 25V K X7R(X) 1508 R/TP	
		C346	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C347	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C348	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C349	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C350	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C351	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C352	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C353	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C354	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C362	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C363	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C364	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C365	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C367	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C368	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C369	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C370	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C371	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C372	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C373	0CH1473K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	47000PF 50V K X7R(X) 1608 R/TP	
		C374	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C375	0CH1334F946	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.33UF 16V 80%,-20% Y5V(F) 201	
		C376	0CH1152K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	1500PF 50V K B 1608 R/TP	
		C377	0CH1152K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	1500PF 50V K B 1608 R/TP	
		C378	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C380	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C381	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C382	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C384	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C385	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C386	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C387	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C388	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C389	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C390	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C391	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C392	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C395	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C396	0CH4070K112	O	O	CAPACITOR,FIXED CERAMIC(High d	7PF 50V 0.5 pF NP0 1608 R/TP	
		C397	0CH7106H651	O	O	CAPACITOR,FIXED TANTALUM	10UF 25V 20% 6032 TP(-)	
		C398	0CH7106H651	O	O	CAPACITOR,FIXED TANTALUM	10UF 25V 20% 6032 TP(-)	
		C399	0CH1152K512	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	1500PF 50V K B 1608 R/TP	
		C401	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C402	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C403	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C404	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C405	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C407	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C408	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C409	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C410	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C411	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C412	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C413	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C414	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C415	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C417	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C420	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C421	0CH4150K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C422	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C423	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C437	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C438	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C439	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C440	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C441	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C442	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C443	0CH1474F946	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.4700UF 16V Z Y5V(F) 2012 R/T	
		C444	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C445	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C446	0CH4151K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C447	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C448	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C450	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C451	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C453	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C454	0CH1122K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1200PF 50V 10% X7R(X) 1608 R/T	
		C455	0CH1333K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C456	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C457	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C458	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C463	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C464	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C465	0CH8476F611	O	O	CAPACITOR,FIXED ELECTROLYTIC	47UF 16V M 85STD(CYL) R/TP SAM	
		C468	0CH4121K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	120P 50V J COG 1.6X0.8 R/TP	
		C469	0CH1332K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% B(5YP) 1608 R/T	
		C470	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C471	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C472	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C473	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C474	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C475	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C476	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C477	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C478	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C479	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C480	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C481	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C482	0CH1473H942	O	O	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C491	0CH4331K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C492	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C493	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C494	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C495	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C496	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C497	0CH1822K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	8200PF 50V 10% X7R(X) 1608 R/T	
		C498	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C499	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C4A0	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C4A1	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C4A2	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C4A3	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C4A4	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C4A5	0CH1471K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	470PF 50V 10% X7R(X) 1608 R/TP	
		C4A6	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C4A7	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C4A8	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	
		C4A9	0CH1472K562	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/TP	
		C4E1	0CH4100K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C4E2	0CH4100K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C4E3	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C4E5	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C4E6	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C4F6	0CH8227C621	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	220UF 6.3V M 105STD (CYL) R/TP	
		C4F7	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C4F8	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C4G1	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C4G2	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C4G3	0CH1102K512	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
		C501	0CH1105F946	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C502	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C503	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C504	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C507	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C508	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C510	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C511	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C513	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C514	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C515	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C516	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C517	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C518	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C520	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C521	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C522	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C523	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C524	0CH8106F611	O	O	CAPACITOR,CHIP[AL. ELECTROLYTI	10UF 16V M 85STD(CYL) R/TP	
		C525	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C526	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C527	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C529	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C530	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C531	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C532	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C533	0CH8107F621	O	O	CAPA,CHIP AL.ELECTROLYTIC	100UF 16V M 6666 R/TP	
		C534	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C539	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C540	0CH1822K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	8200PF 50V 10% X7R(X) 1608 R/T	
		C541	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C701	0CE228CF630	O	O	CAPACITOR,ELECTROLYTIC	2200U SHL 16V M FM5	
		C702	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C703	0CH1821K516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C704	0CH1821K516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C707	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C708	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C70B	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C70C	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C710	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C711	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C712	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C714	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C715	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C717	0CE2276H618	O	O	CAPACITOR,ELECTROLYTIC	220M SMS 25V FM5 TP(5)	
		C718	0CH4101K416	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C719	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C720	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C722	0CH1332K566	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% X7R(X) 2012 R/T	
		C723	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C724	0CH4101K416	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C725	0CH1821K516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C726	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C727	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C728	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C730	0CH4221K416	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	220P 50V J 2.0X1.25 R/TP	
		C731	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C732	0CH4221K416	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	220P 50V J 2.0X1.25 R/TP	
		C733	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C734	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C735	0CH4220K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	22P 50V J COG 1.6X0.8 R/TP	
		C736	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C737	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C738	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C739	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C740	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C742	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C744	0CE1076D618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C746	0CH4121K416	O	O	CHIP CAPA CERAMIC M/L T.C F/S	120P 50V J NP0 2.0X1.2 R/TP	
		C751	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C752	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C756	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C757	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C758	0CH1102K566	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	1000PF 50V K X7R(X) 2012 R/TP	
		C761	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C762	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C763	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C764	0CE4766D618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C767	0CH4121K416	O	O	CHIP CAPA CERAMIC M/L T.C F/S	120P 50V J NP0 2.0X1.2 R/TP	
		C770	0CE2266K618	O	O	CAPACITOR,ELECTROLYTIC	22M SMS 50V M FM5 TP(5)	
		C771	0CE1076F618	O	O	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C773	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C778	0CH1821K516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C787	0CQ3921N409	O	O	CAPACITOR POLYESTER(MYLAR)	0.0039U 100V J POLY TP	
		C791	0CH1332K566	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3300PF 50V 10% X7R(X) 2012 R/T	
		C797	0CH1821K516	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C7V2	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C7V3	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C7V5	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C7V6	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C7V7	0CH1104K946	O	O	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C7V8	0CE4776D618	O	O	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C801	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C802	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C804	0CE1073F638	O	O	CAPACITOR,FIXED ELECTROLYTIC	100UF SRE,SE 16V 20% FM5 TP 5	
		C805	0CN2230H949	O	O	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C806	0CN2230H949	O	O	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C807	0CN2230H949	O	O	CAPACITOR TUBULA(HIGH DIELE)	22000P 25V Z FTA52	
		C810	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C811	0CN1010K419	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA52	
		C812	0CN1010K419	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA52	
		C813	0CN1010K419	O	O	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA52	
		C816	0CX3300K409	O	O	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C817	0CX3300K409	O	O	CAPACITOR TUBULA(T.C)	33P 50V J SL TA52	
		C818	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C820	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C821	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C822	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C823	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C825	0CE4766D618	O	O	CAPACITOR,ELECTROLYTIC	47M SMS 10V M FL TP(5)	
		C826	0CN1040K949	O	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		CN8901	6602R-GV01C	O	O	WAFER	JE202-1T-03(3-2) JAE EUN P=3.9	
DIODE&DIGITRON								
		D101	0DD221009AA	O	O	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D102	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D103	0DR102109AA	O	O	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D104	0DR102109AA	O	O	DIODE,RECTIFIERS	RL102-10C TP GULF SEMICONDUCTO	
		D106	0DR104510AB	O	O	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
		D107	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D108	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D109	0DR158220AA	O	O	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V	
		D110	0DR310000AA	O	O	DIODE,RECTIFIERS	RU3YXLF-C1 BK SANKEN D4 100V 2	
		D120	0DD010009AC	O	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D301	0DS121009AA	O	O	DIODE,SWITCHING	KDS121 TP KEC UMT 85V 300MA 2A	
		D402	0DD187009AC	O	O	DIODE	KDS187 CHIP KEC TP KEC	
FUSE								
		F101	585-011T	O		FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL SEMK	
		F101	585-027B		O	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS /	
IC								
		IC101	0ISK615300A	O	O	IC,SANKEN	STR-G6153T 5PIN FM CUT BK PWM	
		IC104	0ISS431000A	O	O	IC,SAMSUNG ELECTRONICS	KA431AZ (LM431AZ)	
		IC105	0IPMGFA015A	O	O	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC106	0ISS790800C	O	O	IC,SAMSUNG ELECTRONICS	KA7908TSTU 3PIN TO-220 ST 1A -	
		IC107	0IPMGKE009C	O	O	IC,POWER MANAGEMENT	KIA7808API-CU KEC 3P TO-220 ST	
		IC201	0IOA979000C	O	O	IC,OAK TECHNOLOGY	OTI-9790CE 208 LQFP TRAY CD-R/	
		IC202	0IGS711816P	O	O	IC,LG SEMICONDUCTOR	GM71C18163C TSOP2 TP 5V 60N 1M	
		IC203	0IMCRHI001B	O	O	IC,MICRO CONTROLLER	HD64F3062BFBL25 HITACHI FP-100	
		IC203	6957R-0128A	O	O	PROGRAM	ADR-680 RW VER.=028091	
		IC207	0ICP010000A	O	O	IC,CROSS SNT	CST0100C 44QFP BK ASIC	
		IC208	0ICS938600B	O	O	IC,CATALYST	CAT93C86AS 8P SOIC TP 16K BIT	
		IC210	0IRH393900A	O	O	IC,ROHM	BA3939FP-E2	
		IC301	0ILNRSO012A	O	O	IC,LINEAR	CXA3558R SONY 100LQFP TRAY RF	
		IC302	0IJR341400E	O	O	IC,JRC	NJN3414V SIP-8 TP DUAL OP AMP	
		IC303	0IMI630210A	O	O	IC,MITSUBISHI	M63021FP 42P9R TP DRIVE	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		IC304	0IMI623520A	O	O	IC,MITSUBISHI	M62352GP 20P SSOP TP 12CH D/A	
		IC305	0IJR290300D	O	O	IC,JRC	NJM2903V-TE1 8P SSOP TP COMPAR	
		IC306	0IJR340400B	O	O	IC,JRC	NJM3404AV SIP-8 TP SINGLE-SUPP	
		IC307	0INS766500A	O	O	IC,NATIONAL SEMICONDUCTOR	NC7SZ66M5X SOT23 TP SINGLE BIL	
		IC308	0ITO708000D	O	O	IC,TOSHIBA	TC7W08FUDUAL 2 INPUT AND GATE	
		IC402	0ILNRSO015A	O	O	IC,LINEAR	CXD3023R SONY 100 LQFP TRAY DS	
		IC403	0ISO258100A	O	O	IC,SONY	CXA2581N 30PIN TP RFIC	
		IC404	0IJR210000B	O	O	IC,JRC	NJM2100V DUAL OP AMP,JRC	
		IC405	0IMI630210A	O	O	IC,MITSUBISHI	M63021FP 42P9R TP DRIVE	
		IC406	0IRH405300A	O	O	IC,ROHM	BU4053BCFV 16P,SSOP TP TRIPLE	
		IC407	0IMCRHI001B	O	O	IC,MICRO CONTROLLER	HD64F3062BFBL25 HITACHI FP-100	
		IC407	6957R-0119A	O	O	PROGRAM	ADR-680 CDP VER.=028121	
		IC408	0IIA781000B	O	O	IC,INT. MICRO CIRCUITS	FS781BZB 8P SOIC TP EMI SPREAD	
		IC409	0ITR613002E	O	O	IC,TOREX SEMICONDUCTOR	XC61CN3002PR 3P SOT-89 TP VOL	
		IC410	0IRI052710A	O	O	IC,RICOH	RH05RZ27CA-T1 SOT TP REGULATOR	
		IC411	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC502	0ICB842000B	O	O	IC,CRYSTAL SEMICONDUCTOR	CS8420-CSR(REV D)28L SOIC TP D	
		IC510	0ICTMVC001A	O	O	IC,CUSTOMIZED	VC01S05 VERSACHIPS 80 QFP TRAY	
		IC702	0IJR456500A	O	O	IC, JRC(JAPAN RADIO CORP.)	NJM4565M-A,OP-AMP,JRC	
		IC703	0ISTLKE009A	O	O	IC,STANDARD LOGIC	KIC7W53FU KEC 8PIN SM8 R/TP 2-	
		IC704	0IJR553200A	O	O	IC,JRC(JAPAN RADIO CORP.)	NJM5532 OP AMP JRC	
		IC705	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC706	0IPH740400F	O	O	IC,PHILIPS	74HCU04D SOT108-1 TP INVERTER	
		IC707	0ILNRJR002A	O	O	IC,LINEAR	NJM4556AM JRC 8PIN SOP R/TP DU	
		IC708	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC7V1	0IPRPAK002A	O	O	IC,PERIPHERALS	AK4382AVT-E2 AKM 16P TSSOP R/T	
		IC7V2	0IPRPAK001A	O	O	IC,PERIPHERALS	AK5380VT-E2 AKM 16P TSSOP R/TP	
		IC801	0IMCRNE002C	O	O	IC,MICRO CONTROLLER	UPD780232GC-043-8BT NEC 80 QFP	
		IC802	0IKE704200B	O	O	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		RMC801	0IRH693840A	O	O	IC,ROHM	RPM6938-V4 3P BK REMOCON MODUL	
JACK								
		JK701	6612JH002YB	O	O	JACK,RCA	PPJ 111D PARK ELEC.	
		JK703	6612R-L002A	O	O	JACK,FIBER OPTIC	TORX178 TOSHIBA	
		JK704	6612S-A005A	O	O	JACK,HEADPHONE	LGA6502-0150 SMK 2YEON .	
		JK705	6620S-L001A	O	O	SOCKET (CIRC),DRAWING	GP1F32T SHARP OPTICAL H	
		JK801	6612R-C013A	O	O	JACK,RCA	RCA-104 YUQIU (1P) ORANGE	
		JK802	572-359J	O	O	JACK 6.4	SOQ4694-01-4101 K-HOSIDEN H=6.	
		JK803	6612R-L005A	O	O	JACK,FIBER OPTIC	GP1FH500RZ SHARP	
COIL&FILTER&LED								
		FLD801	6302R-V115A	O	O	DIGITRON	16BT-97GNK FUTABA SEG VFD ADR-	
		L101	616-145H	O	O	FILTER(CIRC)	SHT LFS2020V4-04350	
		L103	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L105	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L109	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L110	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L201	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L301	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L302	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L304	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L306	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L441	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L442	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L491	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L501	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L502	6140H-A001A	O	O	FILTER(CIRC),EMI	BEAD C,HH-1H4532-121JT.CERATEH	
		L505	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L507	6140H-B003G	O	O	COIL	NLC322522T-100K 10MH TDK	
		L703	6200S-JC01A	O	O	FILTER(CIRC),EMC	HB-1M2012-121JT CERATECH TP	
		L704	6200S-JC01A	O	O	FILTER(CIRC),EMC	HB-1M2012-121JT CERATECH TP	
		L706	6200S-JC01A	O	O	FILTER(CIRC),EMC	HB-1M2012-121JT CERATECH TP	
		L7V1	6200S-JC01A	O	O	FILTER(CIRC),EMC	HB-1M2012-121JT CERATECH TP	
		T701	6140R-C001C	O	O	COIL,CHOKE	75D-413 KWANGSUNG	
		LD803	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD804	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD805	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD806	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD807	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		LD808	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD809	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD810	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD811	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD812	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD813	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD814	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD815	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD816	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD817	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD818	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD819	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LD820	0DL341829AA	O	O	LED	SM3418F2T TP AUK GREEN .	
		LY702	6920R-B202A	O	O	RELAY	HRS2H-S-DC5V NINGBO HUIGANG EL	
TRANSFORMER								
		PT101	6170RNGW11A	O	O	TRANSFORMER,SMPS[COIL]	SOOJUNG SJE-W11A WIDE EER3530	
TRANSISTOR								
		Q101	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q102	0TR115100AA	O	O	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q103	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q107	0TR115100AA	O	O	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q301	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q302	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q303	0TR144009AH	O	O	TRANSISTOR	DTC144EK CHIP ROHM-J	
		Q402	0TR130409BA	O	O	TRANSISTOR	KTD1304S TP KEC SOT-23 MUTING	
		Q403	0TR130409BA	O	O	TRANSISTOR	KTD1304S TP KEC SOT-23 MUTING	
		Q501	0TR103709BB	O	O	TRANSISTOR	2SA1037K-Q CHIP ROHM-J	
		Q701	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q702	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q703	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q704	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q705	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q706	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q707	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q708	0TR103009AF	O	O	TRANSISTOR	KRA103M-TP (KRA2203) KEC	
		Q709	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q710	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q711	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q712	0TR130209AA	O	O	TRANSISTOR	KTD1302 MUTING TP KEC TO92	
		Q801	0TR319809AC	O	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
RESISTOR								
		F102	0RD0151F609	O	O	RESISTOR,FIXED CARBON FILM	1.5 OHM 1/6 W 5.00% TA52	
		R101	614-007A	O	O	RESISTOR	2.7/2W CEMENT SMPS V	
		R102	0RS1003K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	100K OHM 2 W 5.00% TR	
		R104	0RS5602K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R105	0RD8202F609	O	O	RESISTOR,FIXED CARBON FILM	82K OHM 1/6 W 5.00% TA52	
		R111	0RS0350K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R112	0RD0392F609	O	O	RESISTOR,FIXED CARBON FILM	39 OHM 1/6 W 5.00% TA52	
		R119	0RD4701F609	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA52	
		R120	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R121	0RD1201F609	O	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA52	
		R122	0RS1200J619	O	O	RESISTOR,FIXED METAL OXIDE FIL	120 OHM 1 W 5.00% TR	
		R123	0RD4701F609	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA52	
		R124	0RD3300F609	O	O	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA52	
		R125	0RD2201F609	O	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA52	
		R126	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		R127	0RN3301F409	O	O	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1.00% TA52	
		R128	0RN3301F409	O	O	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1.00% TA52	
		R129	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R131	0RS1200J619	O	O	RESISTOR,FIXED METAL OXIDE FIL	120 OHM 1 W 5.00% TR	
		R133	0RD1201F609	O	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA52	
		R140	0RD4701F609	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA52	
		R141	0RD0562F609	O	O	RESISTOR,FIXED CARBON FILM	56 OHM 1/6 W 5.00% TA52	
		R201	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R203	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R205	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R206	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R208	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R209	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R210	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R211	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R213	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R214	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R215	0RH5604C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6M OHM 1 / 16 W 1608 5.00% D	
		R216	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R217	0RH1800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 16 W 1608 5.00% D	
		R218	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R219	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R220	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R221	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R222	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R223	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R224	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R225	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R226	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R227	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R228	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R231	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R232	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R233	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R234	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R235	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R236	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R237	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R238	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R240	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R241	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R242	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R243	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R244	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R245	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R247	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R248	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R249	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R250	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R251	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R252	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R253	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R254	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R255	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R259	0RH1500C622	O	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R260	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R261	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R262	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R263	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R264	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R265	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R266	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R267	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R268	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R269	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R270	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R271	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R277	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R279	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R280	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R281	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R283	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R284	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R285	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R286	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R287	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R288	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R289	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R290	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R291	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R292	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R293	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R294	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R295	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R296	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R2Q1	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R2Q2	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R301	0RH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R302	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R303	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R304	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R305	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R306	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R307	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R308	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R313	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R314	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R315	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R316	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R317	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R318	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R319	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R320	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R321	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R322	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R323	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R324	0RH2701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R325	0RH2701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R326	0RH1801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R327	0RH1801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R328	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R329	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R330	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R331	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R332	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R333	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R335	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R336	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R337	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R338	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R339	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R340	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R350	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R351	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R352	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R353	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R354	0RH3303C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R355	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R356	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R357	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R358	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R359	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R360	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R361	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R362	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R363	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R364	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R365	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R368	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R369	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R370	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R371	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R372	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R373	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R374	0RH2703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	270K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R375	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R376	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R377	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R388	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R389	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R390	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R391	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R392	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R394	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R396	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R397	0RH2703C622	O	O	RESISTOR,METAL GLAZED(CHIP)	270K OHM 1 / 16 W 1608 5.00% D	
		R398	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R399	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R3A1	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3A2	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R3A3	0RH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R3A4	0RH1202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R3A5	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R3A7	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3A8	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3A9	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R3C1	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R3C2	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R3C3	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3C5	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3C6	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R3C7	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R3C8	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3C9	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D1	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D2	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D3	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D4	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D5	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3D6	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R3K1	0RH2001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R400	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R401	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R402	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R403	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R404	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R405	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R407	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R408	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R409	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R410	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R411	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R412	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R413	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R414	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R416	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R417	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R418	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R419	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R420	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R421	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R422	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R423	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R424	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R425	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R426	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R427	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R432	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R433	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R434	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R435	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R436	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R437	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R440	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R441	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R442	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R443	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R444	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R445	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R446	0RH3303C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R447	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R448	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R449	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R450	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R451	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R452	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R453	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R455	0RH3302C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R456	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R457	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R458	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R460	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R461	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R462	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R463	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R465	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R466	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R467	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R468	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R469	0RH1803C622	O	O	RESISTOR,METAL GLAZED(CHIP)	180K OHM 1 / 16 W 1608 5.00% D	
		R470	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R471	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R472	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R473	0RH1202C422	O	O	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 1.00% D	
		R474	0RH1202C422	O	O	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 1.00% D	
		R475	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R476	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R477	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R478	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R479	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R480	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R481	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R482	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R483	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R484	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R485	0RH6802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R486	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R487	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R488	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R489	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R490	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R491	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R492	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R493	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R494	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R495	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R496	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R497	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R498	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R499	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4A0	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R4A1	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4A2	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R4A3	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4A4	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4A5	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4A6	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R4A7	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R4A8	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R4A9	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C0	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C1	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R4C2	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R4C3	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C4	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C5	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C6	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C7	0RH0221D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R4C8	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R4C9	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4CA	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R4CC	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4E0	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4E3	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R4E5	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4E7	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R4E8	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4E9	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4F0	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4F1	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4F2	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4F3	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4F4	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4F5	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R4F6	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4F7	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R4F8	0RH8202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
		R4F9	0RH2702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R4G0	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R4G1	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R4G2	0RH1802C622	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R4G3	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4K1	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4K2	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4K6	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4K7	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4L1	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R4L2	0RH0682C622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 16 W 1608 5.00% D	
		R4L3	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R4L4	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R4L5	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R4L6	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R4L7	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4L8	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R4L9	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4M1	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R4M2	0RH2202C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R4M3	0RH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R4M4	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4Q1	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R4S2	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4S4	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4S6	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R4S8	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R501	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R502	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R503	0RH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R504	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R505	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R506	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R507	0RH5101C422	O	O	RESISTOR,METAL GLAZED(CHIP)	5.1K OHM 1 / 16 W 1608 1.00% D	
		R509	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R512	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R513	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R514	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R515	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	

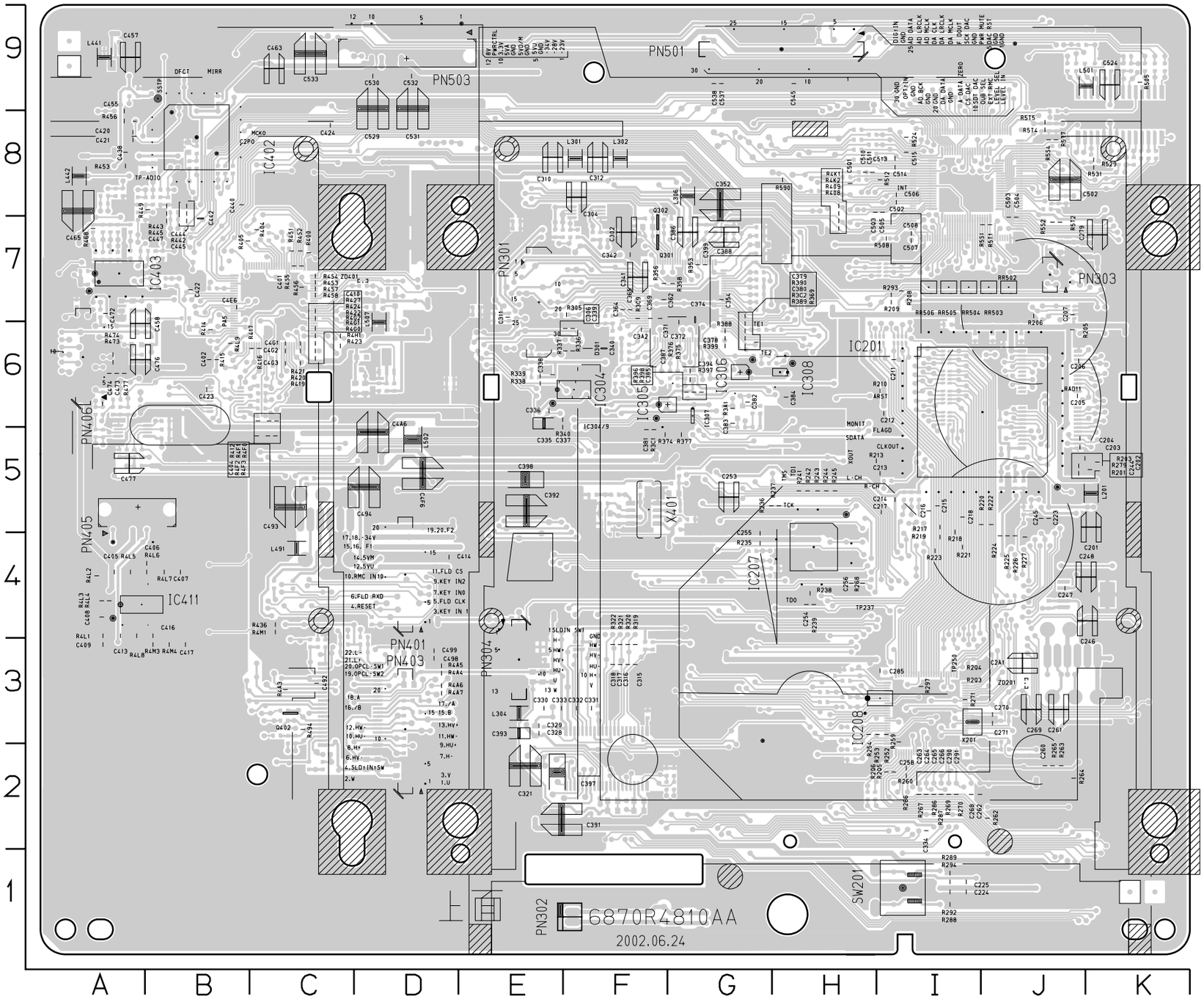
S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R516	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R517	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R519	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R520	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R521	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R522	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R524	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R525	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R526	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R527	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R528	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R529	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R530	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R531	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R532	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R533	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R534	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R535	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R590	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5Q1	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5S1	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5S2	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5S3	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5T6	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5T7	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R701	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R702	0RH1301D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.3K OHM 1 / 10 W 2012 5.00% D	
		R703	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R704	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R705	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R706	0RH4700D622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R707	0RH4700D622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R708	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R70A	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R70B	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R70C	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R70D	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R70E	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R70F	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R70G	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R711	0RH5601D622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R712	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R713	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R714	0RH2701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R715	0RH2701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R716	0RH1002D622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R717	0RH0000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R718	0RH5601D622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R719	0RH5101D622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.1K OHM 1 / 10 W 2012 5.00% D	
		R720	0RH2702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R721	0RH0000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R722	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R723	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R724	0RH3301D622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 10 W 2012 5.00% D	
		R725	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R727	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R728	0RH1500C622	O	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R729	0RH1000D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R731	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R732	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R733	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R734	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R735	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R736	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R737	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R738	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R740	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R741	0RH2702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R742	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R743	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R744	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R745	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R746	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R749	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R750	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R752	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R753	0RH2201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R755	0RH3901D622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R756	0RH3301D622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 10 W 2012 5.00% D	
		R757	0RH4702D622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R758	0RH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R759	0RH4700D622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R760	0RH3300D622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R761	0RH3901D622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R763	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R764	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R766	0RH2701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R768	0RH1301D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.3K OHM 1 / 10 W 2012 5.00% D	
		R770	0RH5101D622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.1K OHM 1 / 10 W 2012 5.00% D	
		R771	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R772	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R773	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R774	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R775	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R776	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R777	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R778	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R779	0RH1201D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R781	0RH5600D622	O	O	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 10 W 2012 5.00% D	
		R782	0RH5600D622	O	O	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 10 W 2012 5.00% D	
		R783	0RH1003D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R784	0RH1003D622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R785	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R786	0RH0222D622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 10 W 2012 5.00% D	
		R788	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R789	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R790	0RH1002D622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R791	0RH1002D622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R794	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R795	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R796	0RH0682D622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 10 W 2012 5.00% D	
		R797	0RH0682D622	O	O	RESISTOR,METAL GLAZED(CHIP)	68 OHM 1 / 10 W 2012 5.00% D	
		R798	0RH1001D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R799	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R7V2	0RH3300D622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R7V3	0RH3300D622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R7V4	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R7V5	0RH4701D622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R801	0RD1801F609	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R802	0RD2701F609	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5% TA52	
		R803	0RD3301F609	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R804	0RD3901F609	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA52	
		R805	0RD5601F609	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA52	
		R806	0RD8201F609	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R807	0RD1502F609	O	O	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R808	0RD1801F609	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R809	0RD2701F609	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5% TA52	
		R810	0RD3301F609	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R811	0RD3901F609	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA52	
		R812	0RD5601F609	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA52	
		R813	0RD1801F609	O	O	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA52	
		R814	0RD2701F609	O	O	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5% TA52	
		R815	0RD3301F609	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R816	0RD3901F609	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA52	
		R817	0RD5601F609	O	O	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA52	
		R818	0RD8201F609	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R819	0RD1502F609	O	O	RESISTOR,FIXED CARBON FILM	15K OHM 1/6 W 5.00% TA52	
		R823	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R824	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R825	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R826	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R827	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R828	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R829	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R830	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R831	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R832	0RD0182F609	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA52	
		R833	0RD1000F609	O	O	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA52	
		R834	0RD3301F609	O	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA52	
		R835	0RD2702F609	O	O	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R836	0RD8201F609	O	O	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA52	
		R840	0RD2702F609	O	O	RESISTOR,FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA52	
		R841	0RD4701F609	O	O	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA52	
		R842	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		R843	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		R844	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		R845	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		R847	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R848	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R849	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R850	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R851	0RD4702F609	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA52	
		R853	0RD0822F609	O	O	RESISTOR,FIXED CARBON FILM	82 OHM 1/6 W 5.00% TA52	
		R854	0RD1800F609	O	O	RESISTOR,FIXED CARBON FILM	180 OHM 1/6 W 5.00% TA52	
		R855	0RD1001F609	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA52	
		RMC801	0IRH693840A	O	O	IC,ROHM	RPM6938-V4 3P BK REMOCON MODUL	
		RR201	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR202	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR203	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR204	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR205	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR206	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR501	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR502	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR503	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR504	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR505	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR506	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
		RR507	0RR2200Q62A	O	O	RESISTOR,DRAWING	220 OHM 1/16 W 3216 5.00% R/TP	
SENSOR								
		IC102	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC708	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
SWITCH								
		SW4M1	6600KW3004C	O	O	SWITCH,MICRO	SW2AB-254-10 SHINMEI 5VDC 10MA	
		SW801	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW802	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW803	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW804	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW805	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW806	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW807	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW808	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW809	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW810	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW811	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW812	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW813	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW814	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW815	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW816	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		SW817	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW818	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW819	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW820	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW821	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW822	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW823	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW824	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW828	556-219B	O	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW8901	6600R-PH01A	O	O	SWITCH,TACT	SDKLA10200 JAPAN ALPS UL/CSA 2	
VARIABLE RESISTOR								
		VR801	6110R-RK01A	O	O	VOLUME,ROTARY	RK09L12B0-500BX2 ALPS 500BX2	
		VR802	6110R-RK01B	O	O	VOLUME,ROTARY	RK09L12B0-20KBX2 ALPS 20KBX2	
CRYSTAL								
		X201	6212HA0202A	O	O	RESONATOR,CERAMIC	CSACV20M0X53-R0 MURATA 20MHZ	
		X401	6202R-BM01A	O	O	RESONATOR,CRYSTAL	HC-49/SM5H KONY 33-8688MHZ 5	
		X402	6212HA0202A	O	O	RESONATOR,CERAMIC	CSACV20M0X53-R0 MURATA 20MHZ	
		X801	6202R-BJ01A	O	O	RESONATOR,CRYSTAL	HC-49S SUNNY 5-0000MHZ 30P	
ZENER DIODE								
		ZD101	0DZ510009AH	O	O	DIODE,ZENER	GDZJ5.1B TP GRANDE DO-34 500MW	
		ZD201	0DD202009AA	O	O	DIODE,CHIP	DAN202U(N)-T106 CHIP ROHM	
		ZD401	0DD202009AA	O	O	DIODE,CHIP	DAN202U(N)-T106 CHIP ROHM	
CIRCUIT BOARD ASSY & CONNECTOR								
		P	3300R-M044A	O	O	PLATE	VOL GND(ADR-600)	
		PN101	6602R-GV01C		O	WAFER	JE202-1T-03(3-2) JAE EUN P=3.9	
		PN302	561-711B	O	O	CONNECTOR (CIRC),WAFER	GIL-S-02P-S2T2-EF LG CABLE 2PI	
		PT101	6170RNGW11A	O	O	TRANSFORMER,SMPS[COIL]	SOOJUNG SJE-W11A WIDE EER3530	

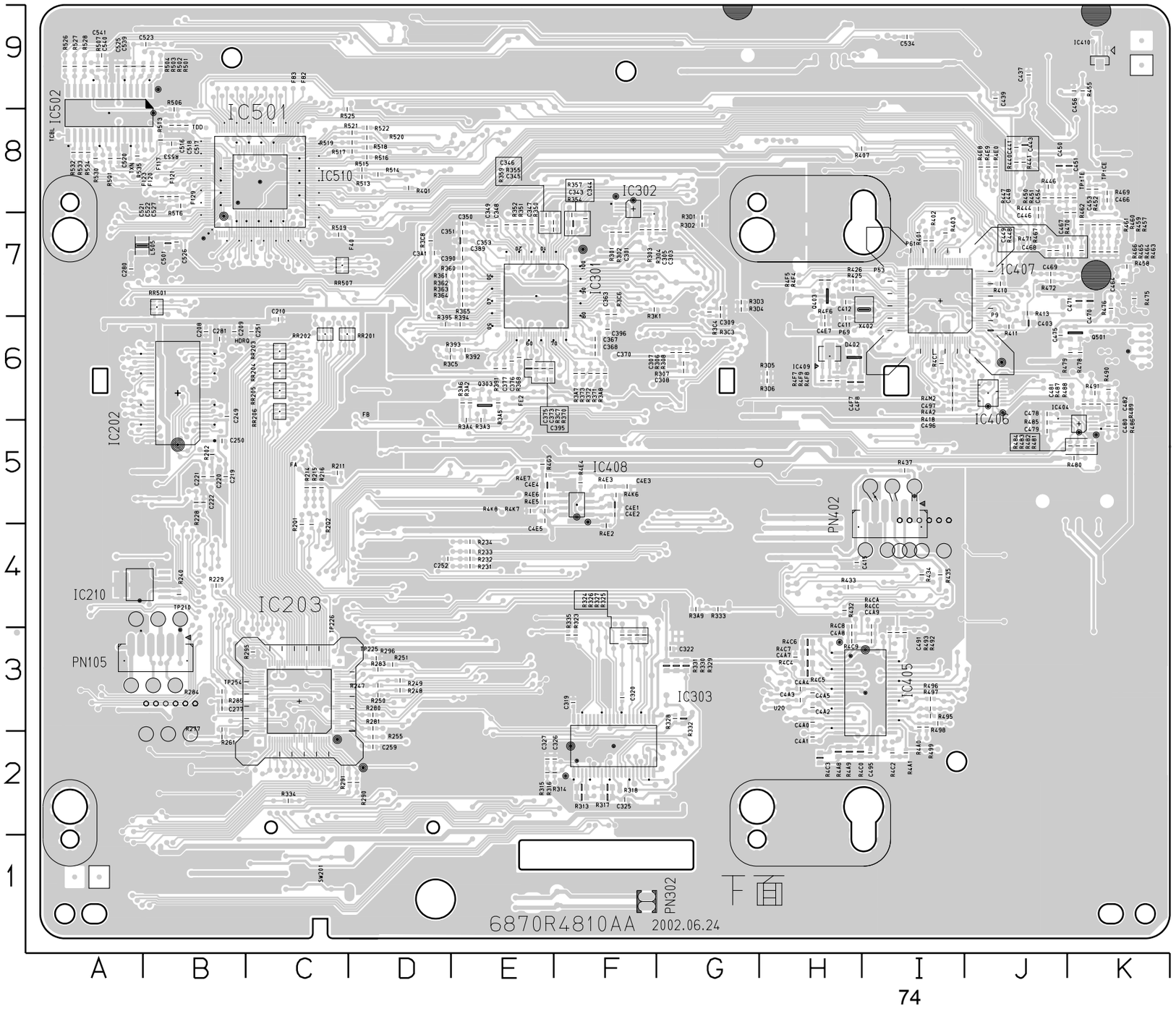
PCB DRAWINGS - MAIN (TOP)



LOCATION GUIDE

ARST	I6	C330	E3	C438	A8	IC207	H4	R223	I4	R376	G6	R4L3	A4
C201	K5	C331	F3	C440	B8	IC208	I3	R224	J4	R377	G5	R4L4	A4
C202	K5	C332	F3	C442	B7	IC304	F6	R225	J4	R388	G6	R4L5	A4
C203	J5	C333	E3	C444	B8	IC304/14	F6	R226	J4	R389	G6	R4L6	B4
C204	J5	C334	I2	C445	B7	IC304/9	F6	R227	J4	R390	G6	R4L7	B4
C205	J6	C335	E6	C447	B7	IC305	G6	R235	G4	R396	G6	R4L8	A4
C206	J6	C336	E6	C455	A8	IC306	G6	R236	G5	R397	G6	R4L9	B6
C207	J7	C337	E5	C457	A9	IC307	G6	R237	H5	R398	G6	R4M1	C4
C211	I6	C338	E6	C458	A6	IC308	H6	R238	H4	R399	G6	R4M3	B3
C212	I6	C339	F6	C463	C9	IC402	B8	R239	H4	R3A1	G6	R4M4	B3
C213	I5	C340	F6	C465	A8	IC403	A7	R241	H5	R3C1	F5	R4S1	C7
C214	I5	C341	F7	C472	A7	IC411	A4	R242	H5	R3C2	G6	R4S2	C7
C215	I5	C342	F7	C473	A6	INT	I8	R243	H5	R3C9	F7	R4S3	C7
C216	I5	C352	G8	C474	A6	L-CH	H5	R244	H5	R400	C7	R4S4	C7
C217	I5	C354	G7	C476	A6	L201	K5	R245	H5	R404	C7	R4S5	C7
C218	I5	C362	F7	C477	A5	L301	F8	R252	I3	R405	B7	R4S6	C7
C223	J5	C364	F7	C492	C3	L302	F8	R253	I3	R408	H7	R4S7	C7
C224	I1	C365	F7	C493	C5	L304	E3	R254	H3	R409	H7	R4S8	C7
C225	I1	C369	F7	C494	D5	L306	G8	R259	I3	R412	C6	R505	K9
C244	K5	C371	F7	C498	D3	L441	A9	R260	I2	R414	B6	R508	I7
C245	J5	C372	G6	C499	D3	L442	A8	R262	J2	R415	B6	R512	I8
C246	K4	C374	G7	C4A6	D5	L491	C4	R263	J2	R416	C6	R524	I8
C247	J4	C378	G6	C4E6	B7	L501	K9	R264	J2	R417	C6	R529	K8
C248	K4	C379	G7	C4F6	D5	L502	D5	R265	J2	R419	C6	R531	K8
C253	G5	C380	G6	C4G1	C6	L507	D6	R266	I2	R420	C6	R590	H8
C254	H4	C381	F5	C4G2	C6	MCKO	B8	R267	I2	R421	C6	R5S1	J7
C255	G4	C382	G6	C4G3	C6	MIRR	B9	R268	H4	R422	C6	R5S2	J7
C256	H4	C383	G6	C502	J8	MONIT	H6	R269	I2	R423	C6	R5S4	J8
C258	I2	C384	H6	C503	J7	PA5	B6	R270	I2	R424	C6	R5T1	J7
C260	J2	C385	G6	C504	J7	PANICIN	I5	R271	I3	R427	C7	R5T2	J7
C261	J3	C386	G7	C505	I8	PGCK2	I7	R279	J5	R436	C4	R5T4	J8
C262	I2	C387	F6	C506	I8	PN301	E7	R286	I2	R442	B8	R5T5	J8
C263	I2	C388	G7	C507	I7	PN302	F1	R287	I2	R443	B8	R5T7	J8
C264	I2	C391	E2	C508	I7	PN303	J7	R288	I1	R445	B8	RAD10	J6
C265	I2	C392	E5	C510	H8	PN304	E3	R289	I1	R449	B8	RAD11	J6
C266	I2	C393	E3	C511	H8	PN401	D4	R292	I1	R453	A8	ROPC3	J5
C268	I2	C394	G6	C513	I8	PN403	D3	R293	I7	R456	A8	RR502	J7
C269	J3	C397	E2	C514	I8	PN405	A5	R294	I1	R468	A7	RR503	J7
C270	J3	C398	E5	C515	I8	PN406	A6	R297	I3	R473	A6	RR504	I7
C271	J3	C399	G7	C524	K9	PN501	H9	R2Q3	J3	R474	A6	RR505	I7
C279	K7	C3A2	F6	C529	D9	PN503	D9	R2Q4	J3	R477	A6	RR506	I7
C285	I3	C401	C7	C530	D9	Q301	F7	R2Q5	I2	R494	C3	SDATA	H5
C290	I2	C402	B6	C531	D9	Q302	F7	R2Q6	I2	R4A3	C3	SSTP	B9
C291	I2	C404	C5	C532	D9	Q402	C3	R305	F7	R4A4	D3	SW201	I1
C2A1	J3	C405	A4	C533	C9	R-CH	I5	R319	F3	R4A5	D3	TCK	H5
C2P0	B8	C406	B4	C537	G9	R201	J5	R320	F3	R4A6	D3	TDI	H5
C302	F7	C407	B4	C538	G9	R203	J5	R321	F3	R4A7	D3	TDO	H4
C304	F8	C408	A4	C545	H9	R205	J6	R322	F3	R4F0	C6	TE1	G6
C306	F6	C409	A3	C5Q1	H8	R206	J7	R336	F6	R4F1	C6	TE2	G6
C310	E8	C410	C7	C5Q2	I8	R208	I7	R337	F6	R4F2	C5	TMS	H5
C311	E7	C413	A4	C5Q3	H8	R209	I7	R338	E6	R4F3	C5	TP-ADIO	A8
C312	F8	C414	D4	CLKOUT	I5	R210	I6	R339	E6	R4G0	C6	TP21	H5
C315	F3	C416	B4	D301	F6	R213	H5	R340	E6	R4G1	C6	TP237	H4
C316	F3	C417	B3	DFCT	B9	R217	I5	R353	G7	R4G2	C6	TP43	C7
C317	F3	C420	A8	EFMNT1	I5	R218	I4	R356	F7	R4H1	C6	X201	I3
C318	F3	C421	A8	EFMNT4	I5	R219	I4	R358	G7	R4K1	H8	X401	F5
C321	E2	C422	B7	F75	I8	R220	J5	R369	G6	R4K2	H8	XOUT	H5
C328	E3	C423	B6	FLAGD	H5	R221	I4	R374	F5	R4L1	A4	ZD201	J3
C329	E3	C424	C8	IC201	J6	R222	J5	R375	G6	R4L2	A4	ZD401	D7

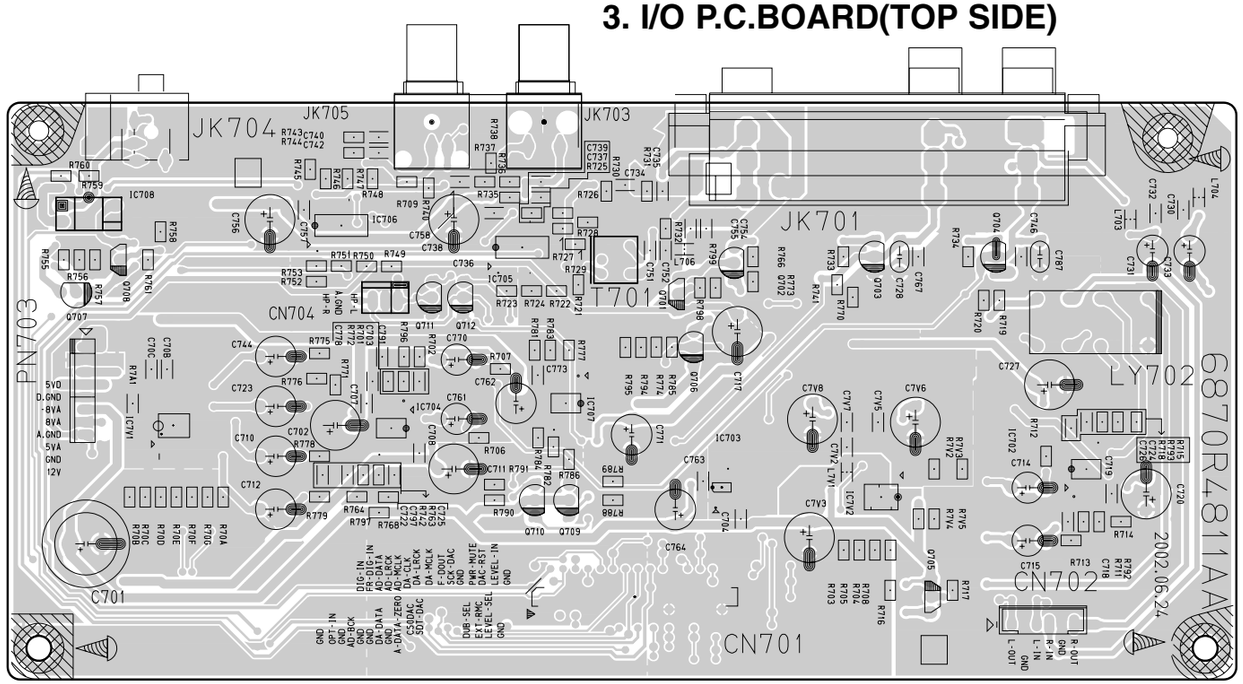
PCB DRAWINGS - MAIN (BOTTOM)



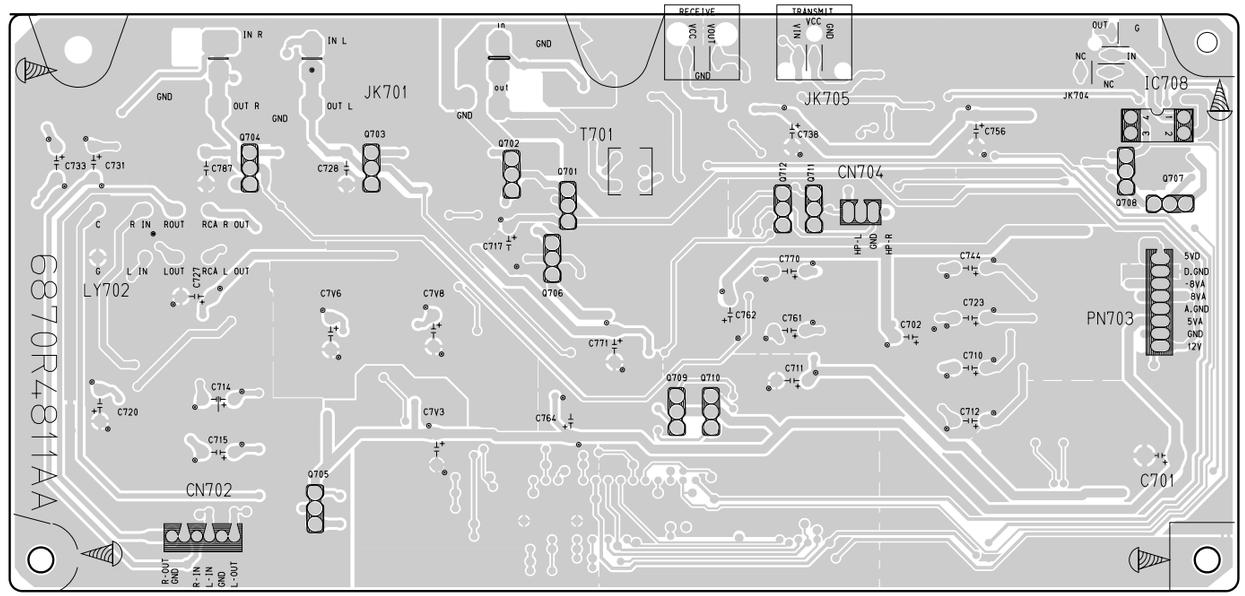
LOCATION GUIDE

/LWR	B3	C446	J7	F123	B8	R247	D3	R372	F6	R465	K7	R4F9	H6
AS	B3	C448	J8	F129	B8	R248	D3	R373	F6	R466	K7	R4G3	E5
BETA±0UF	B6	C449	J7	F40	D7	R249	D3	R391	E6	R467	K7	R4K6	F5
C208	B6	C450	J8	F82	C9	R250	D3	R392	E6	R469	K8	R4K7	E5
C209	B6	C451	K8	F83	C9	R251	D3	R393	D6	R470	K7	R4K8	E5
C210	C6	C453	K8	FA	C5	R255	D2	R394	E6	R471	K7	R4M2	I6
C219	B5	C454	K8	FB	D5	R261	B2	R395	D6	R472	J7	R4Q1	D8
C220	B5	C456	K9	FE1	E6	R277	B3	R3A2	E6	R475	K7	R501	B9
C221	B5	C464	K7	FE2	E6	R280	D3	R3A3	E5	R476	K7	R502	B9
C222	B5	C466	K8	HDRQ	B6	R281	D3	R3A4	E5	R478	K6	R503	B9
C249	B6	C467	J7	IC202	B6	R283	D3	R3A5	E6	R479	K6	R504	A9
C250	B5	C468	K7	IC203	C3	R284	B3	R3A6	E6	R480	K5	R506	B8
C251	C6	C469	J7	IC210	A4	R285	B3	R3A7	F6	R481	K5	R507	A9
C252	D4	C470	K7	IC301	E7	R290	D2	R3A8	F6	R482	K5	R509	C7
C259	D2	C471	K7	IC301/2	F7	R291	D2	R3A9	G4	R483	K5	R513	D8
C277	B3	C475	J6	IC301/23	E7	R295	C3	R3C3	G6	R484	K5	R514	D8
C280	A7	C478	J6	IC301/49	E6	R296	D3	R3C4	G7	R485	J5	R515	D8
C281	B6	C479	J5	IC301/68	F6	R2Q1	C4	R3C5	D6	R486	K5	R516	D8
C301	F7	C480	K5	IC301/69	F6	R2Q2	C4	R3C6	F7	R487	K6	R517	D8
C303	G7	C481	K6	IC301/70	F6	R301	F7	R3C7	E6	R488	K6	R518	D8
C305	G7	C482	K6	IC301/83	F7	R302	F7	R3C8	D7	R489	K6	R519	D8
C307	G6	C491	I3	IC301/84	F7	R303	F7	R3D1	G7	R490	K6	R520	D8
C308	G6	C495	I2	IC301/85	F7	R304	F7	R3D2	G7	R491	K6	R521	D8
C309	G7	C496	I6	IC301/86	F7	R306	G6	R3D3	G7	R492	I3	R522	D8
C319	F3	C497	I6	IC301/9	E7	R307	G6	R3D4	G7	R493	I3	R525	C8
C320	F3	C4A0	H3	IC302	F8	R308	G6	R3D5	H6	R495	I3	R526	A9
C322	G3	C4A1	H2	IC303	F2	R313	F2	R3D6	H6	R496	I3	R527	A9
C325	F2	C4A2	H3	IC404	K5	R314	F2	R3K1	F7	R497	I3	R528	A9
C326	F2	C4A3	H3	IC405	I3	R315	E2	R401	I7	R498	I3	R530	A8
C327	E2	C4A4	H3	IC406	J6	R316	F2	R402	I7	R499	I3	R532	A8
C343	F7	C4A5	H3	IC407	I7	R317	F2	R403	I7	R4A0	I3	R533	A8
C344	F7	C4A7	H3	IC408	F5	R318	F2	R407	H8	R4A1	I2	R534	A8
C345	E7	C4A8	H3	IC409	H6	R323	F3	R410	J7	R4A2	I6	R535	A8
C346	E7	C4A9	I3	IC410	K9	R324	F3	R411	J6	R4A8	H2	R5Q1	A8
C347	E7	C4E1	F5	IC501	C8	R325	F3	R413	J7	R4A9	H2	R5S3	B8
C348	E7	C4E2	F5	IC502	A8	R326	F3	R418	I6	R4C0	H2	R5T3	B8
C349	E7	C4E3	F5	IC510	C8	R327	F3	R425	H7	R4C1	I6	R5T6	B8
C350	E7	C4E4	E5	L505	A7	R328	G3	R426	H7	R4C2	I2	RR201	C6
C351	E7	C4E5	E5	P53	I7	R329	G3	R432	H4	R4C3	H2	RR202	C6
C353	E7	C4E7	H6	P61	I7	R330	G3	R433	H4	R4C4	H3	RR203	C6
C363	F7	C4F7	H6	P69	H6	R331	G3	R434	I4	R4C5	H3	RR204	C6
C367	F6	C4F8	H6	P72	I6	R332	G3	R435	I4	R4C6	H3	RR205	C6
C368	F6	C501	B7	P9	J6	R333	G4	R437	I5	R4C7	H3	RR206	C6
C370	F6	C516	B8	P91	I6	R334	C2	R440	J8	R4C8	H4	RR501	B7
C373	E6	C517	B8	PN105	B3	R335	F3	R441	J8	R4C9	H3	RR507	C7
C375	E6	C518	B8	PN402	I4	R350	E7	R444	J8	R4CA	I4	RRF	F6
C376	E6	C520	A8	Q303	E6	R351	E7	R446	J8	R4CC	I3	TCBL	A8
C377	E6	C521	B8	Q403	H7	R352	E7	R447	J8	R4E0	J8	TDD	B8
C389	E7	C522	B8	Q501	K6	R354	F7	R448	J7	R4E2	F4	TP210	B4
C390	E7	C523	B9	R202	B5	R355	E7	R450	J8	R4E3	F5	TP225	D3
C395	E6	C525	A9	R211	C5	R357	F7	R451	J8	R4E4	F5	TP226	C3
C396	F6	C526	B7	R214	C5	R359	E7	R452	K8	R4E5	E5	TP250	C3
C3A1	D7	C527	B8	R215	C5	R360	E7	R455	K9	R4E6	E5	TP254	B3
C403	J6	C534	I9	R216	C5	R361	E7	R457	K7	R4E7	E5	TP49	I8
C411	H6	C539	A9	R228	B5	R362	E7	R458	K7	R4E8	J8	TP±CE	K8
C412	H7	C540	A9	R229	B4	R363	E7	R459	K7	R4E9	J8	TP±FE	J7
C415	H4	C541	A9	R231	E4	R364	E7	R460	K7	R4F4	H7	TP±TE	K8
C437	J9	D402	H6	R232	E4	R365	E7	R461	K7	R4F5	H7	TXN	A8
C439	J9	F117	B8	R233	E4	R368	E6	R462	K7	R4F6	H6	U20	H3
C441	J8	F120	B8	R234	E4	R370	E6	R463	K7	R4F7	H6	V±TP	H3
C443	J8	F121	B8	R240	B4	R371	F6	R464	K7	R4F8	H6	X402	I7

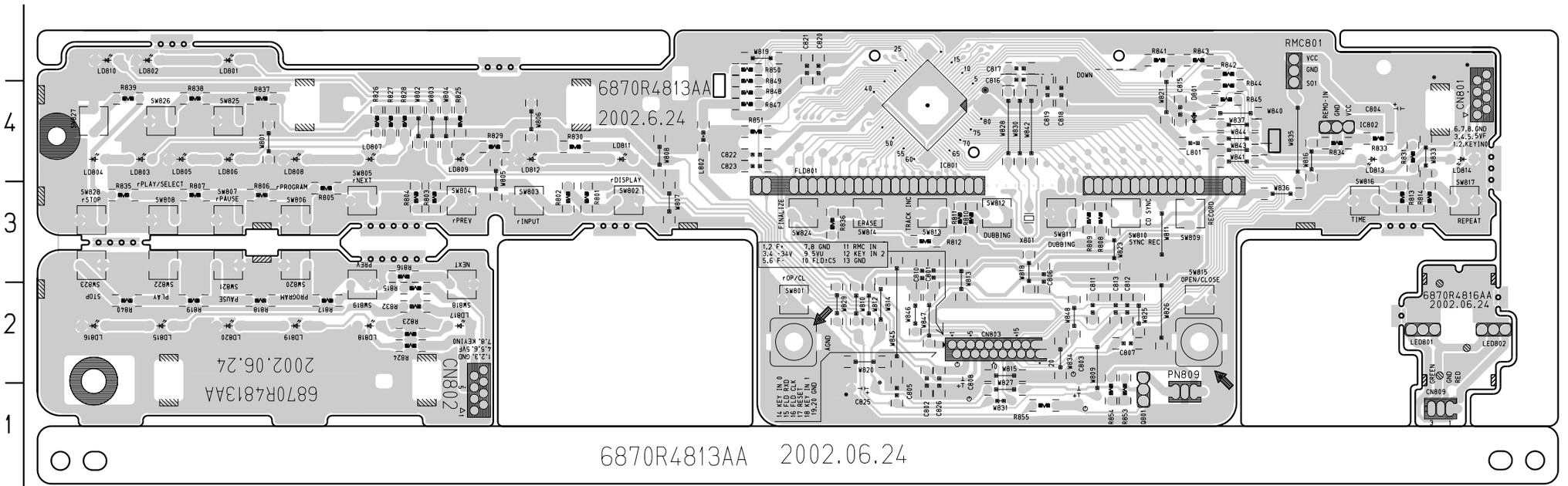
3. I/O P.C.BOARD(TOP SIDE)



4. I/O P.C.BOARD (BOTTOM SIDE)



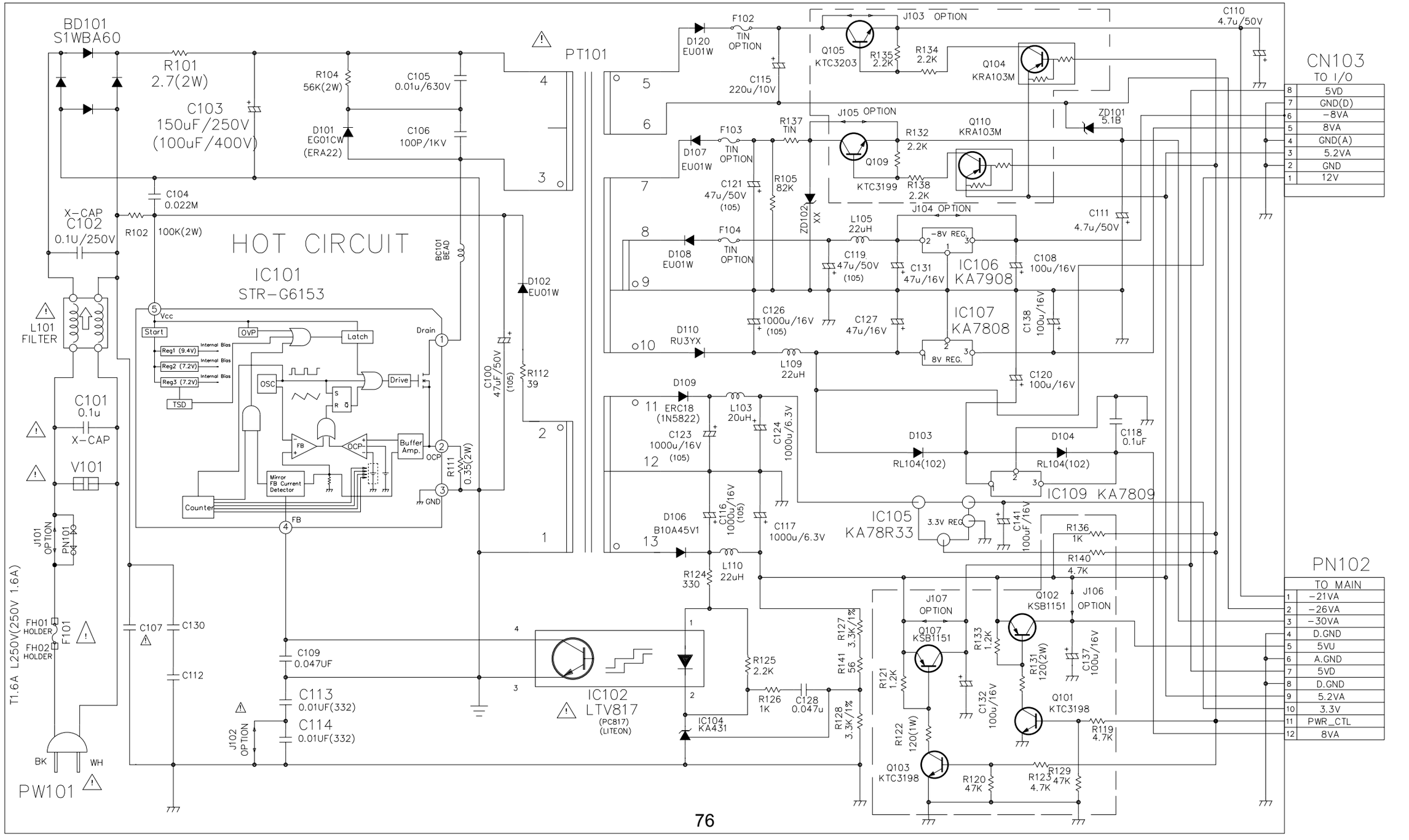
5. FRONT P.C.BOARD



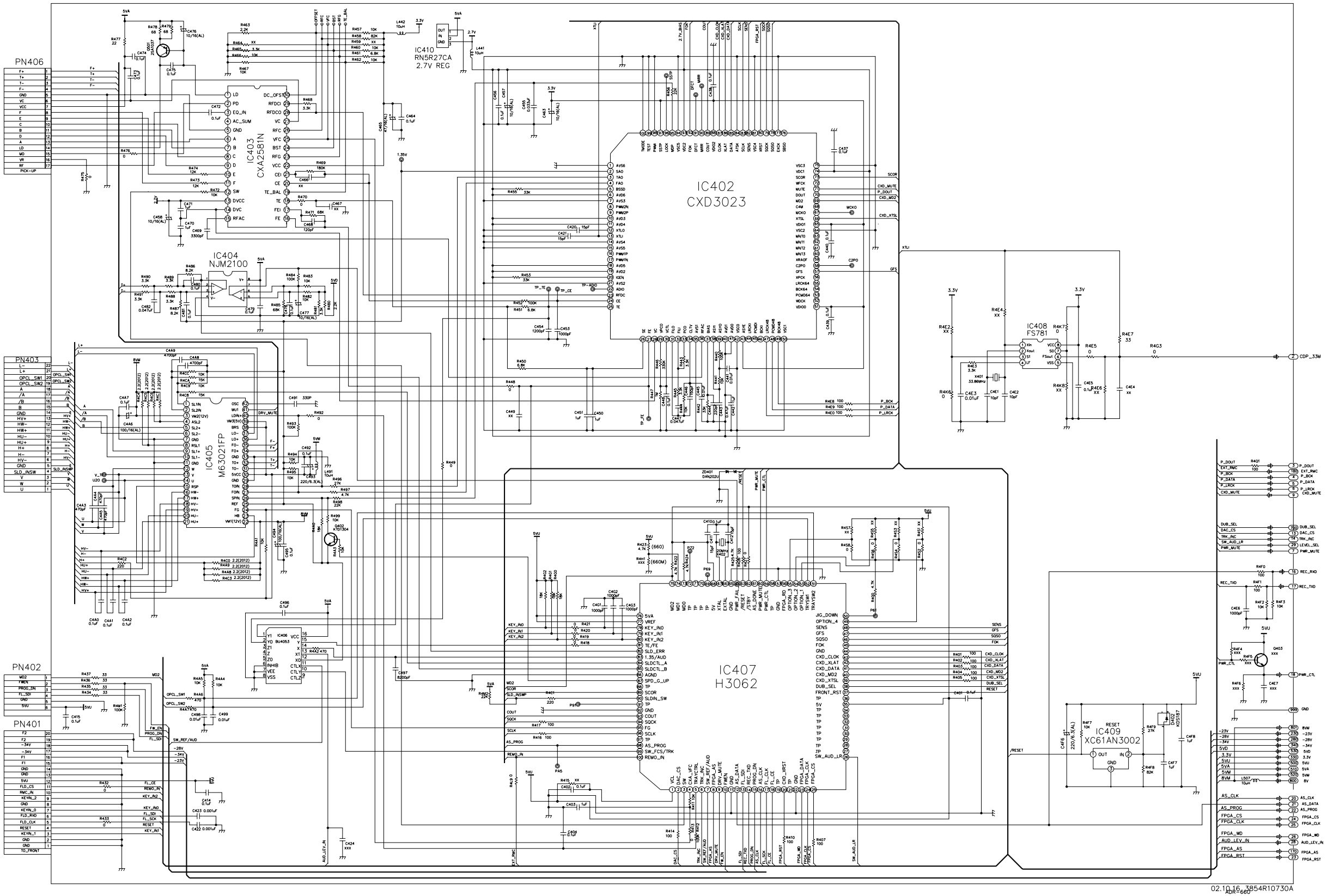
LOCATION GUIDE

C801	J3	LD815	B2	R840	A2
C802	J2	LD816	A2	R841	L5
C803	K1	LD817	E2	R842	M5
C804	O4	LD818	D2	R843	M5
C805	J1	LD819	C2	R844	M4
C806	K3	LD820	C2	R845	M4
C807	L2	LED801	O2	R847	H4
C808	J2	LED802	P2	R848	H4
C810	J3	PN809	L1	R849	H4
C811	L2	Q801	L1	R850	H5
C812	L2	R801	F3	R851	H4
C813	L2	R802	F3	R853	L1
C815	M4	R803	E3	R854	L1
C816	K5	R804	D3	R855	K1
C817	K5	R805	D3	RMC801	N5
C818	K4	R806	C3	SW801	H2
C819	K4	R807	B3	SW802	G3
C820	I5	R808	L3	SW803	F3
C821	I5	R809	L3	SW804	E3
C822	H4	R810	J3	SW805	D3
C823	H4	R811	J3	SW806	C3
C825	I1	R812	J3	SW807	C3
C826	J2	R813	O3	SW808	B3
CN801	P4	R814	O3	SW809	M3
CN802	E1	R815	D2	SW810	L3
CN803	J2	R816	D3	SW811	K3
CN809	O1	R817	D2	SW812	K3
D801	M4	R818	C2	SW813	J3
FLD801	H3	R819	B2	SW814	I3
IC802	N4	R823	D2	SW815	M2
L801	M4	R824	D2	SW816	N3
L802	H4	R825	E4	SW817	P3
LD801	C5	R826	D4	SW818	E2
LD802	B5	R827	D4	SW819	D2
LD803	B4	R828	D4	SW820	C3
LD804	A4	R829	E4	SW821	C3
LD805	B4	R830	F4	SW822	B3
LD806	C4	R831	O4	SW823	A3
LD807	D4	R832	D2	SW824	I3
LD808	C4	R833	O4	SW825	C4
LD809	E4	R834	N4	SW826	B4
LD810	A5	R835	A3	SW827	A4
LD811	G4	R836	I3	SW828	A3
LD812	F4	R837	C4	X801	K3
LD813	O4	R838	B4		
LD814	O4	R839	A4		

SCHEMATICS - POWER SUPPLY



SCHEMATICS - CDP SECTION



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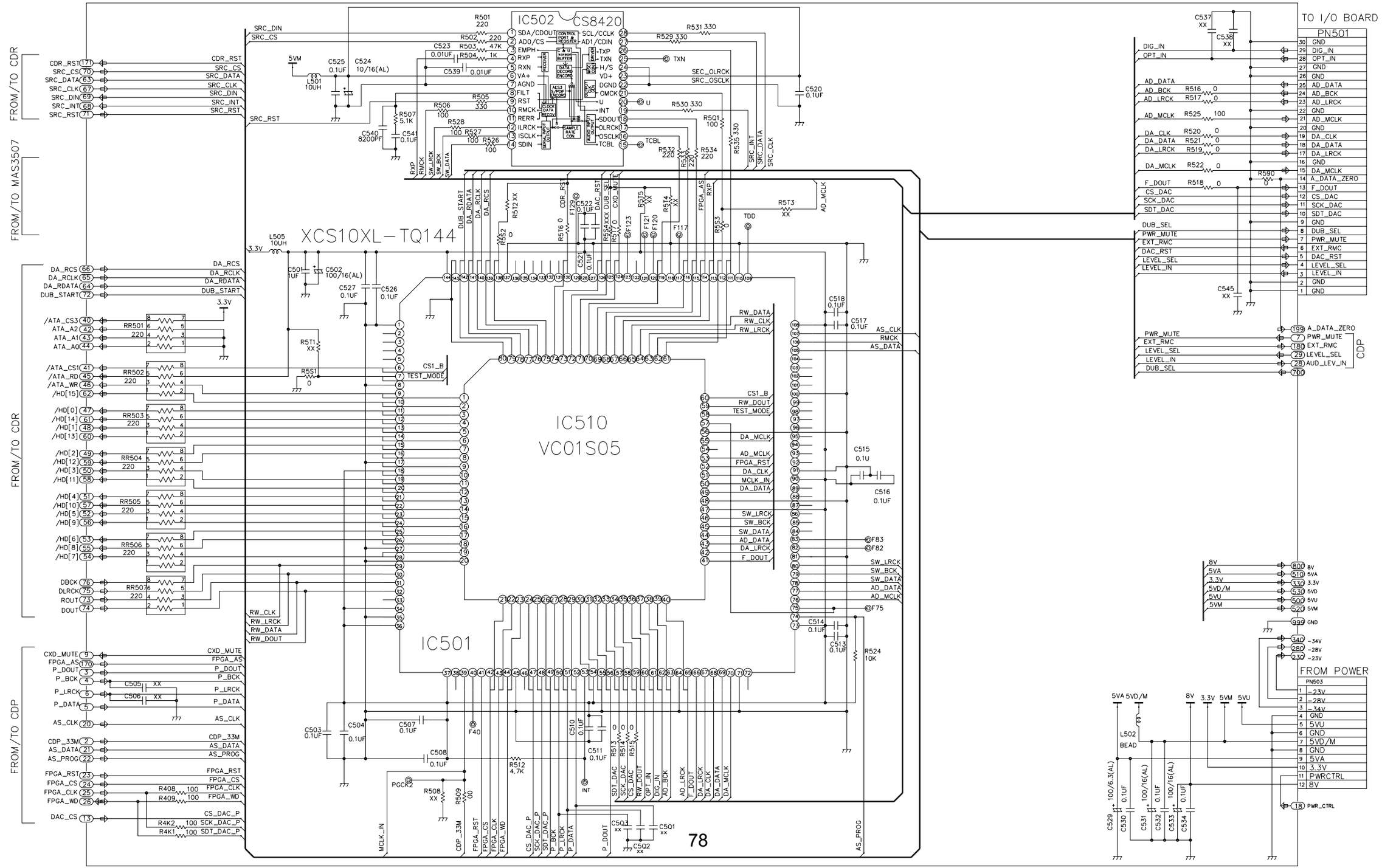
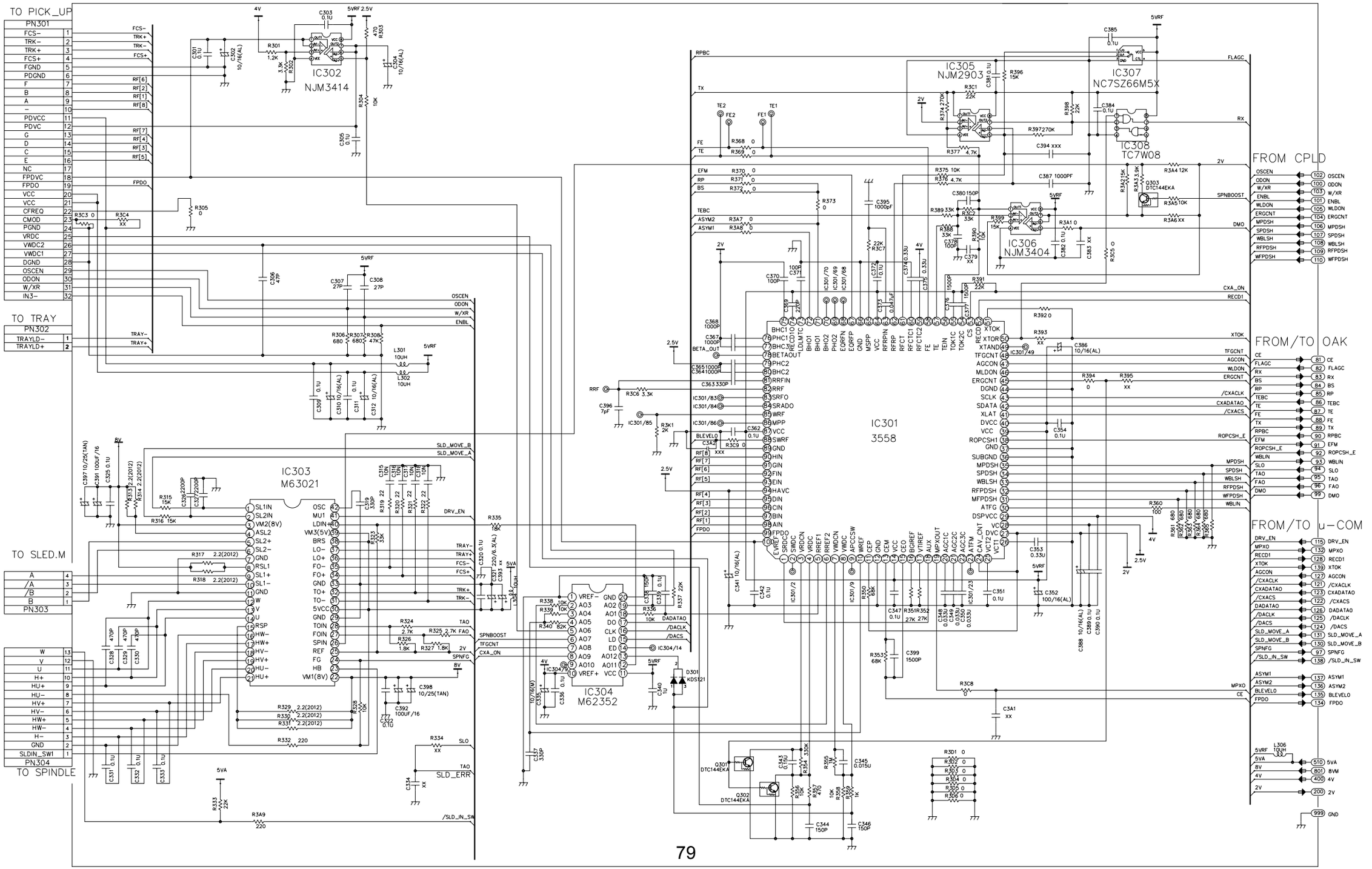
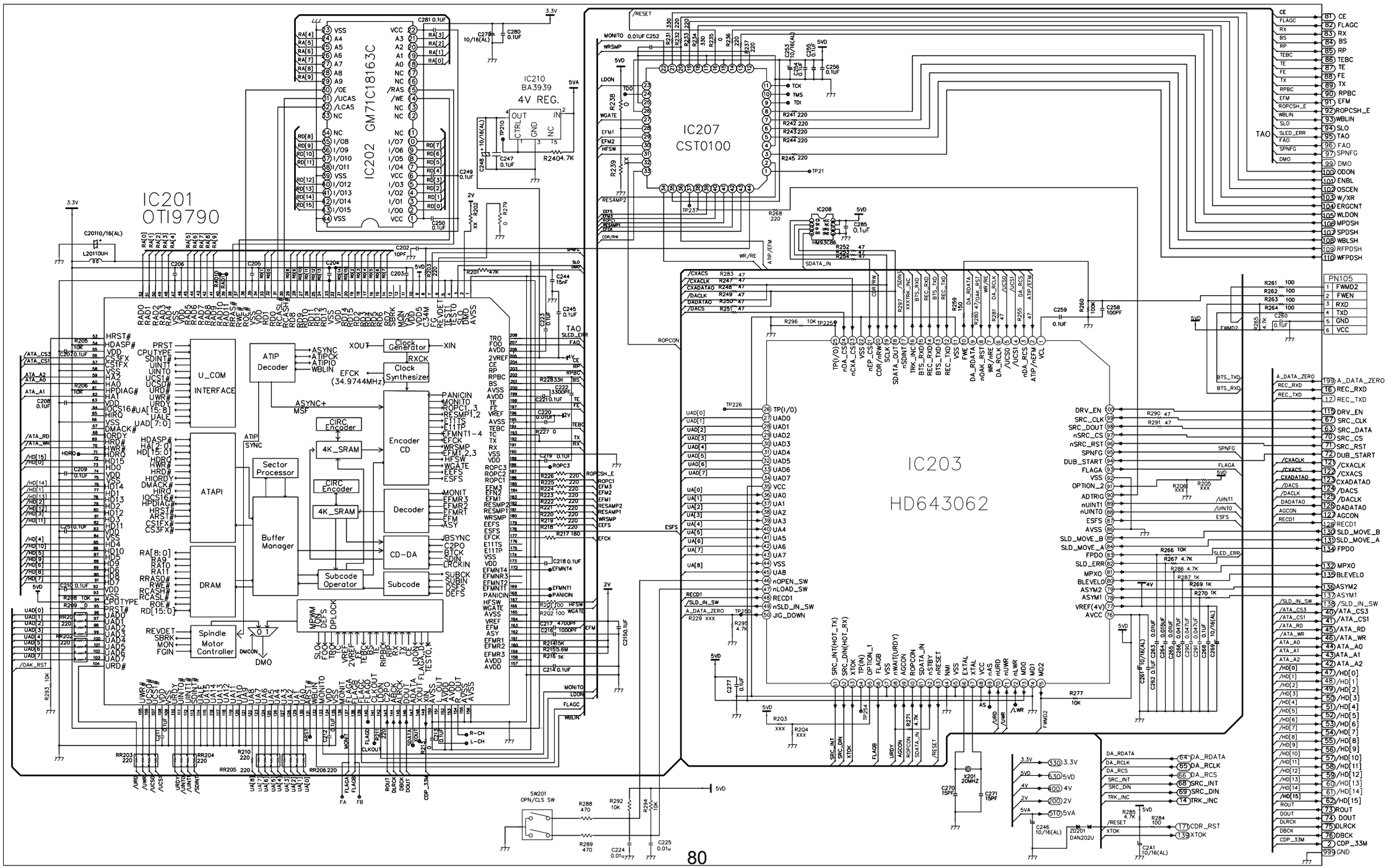


SCHEMATICS - CDR RF SECTION

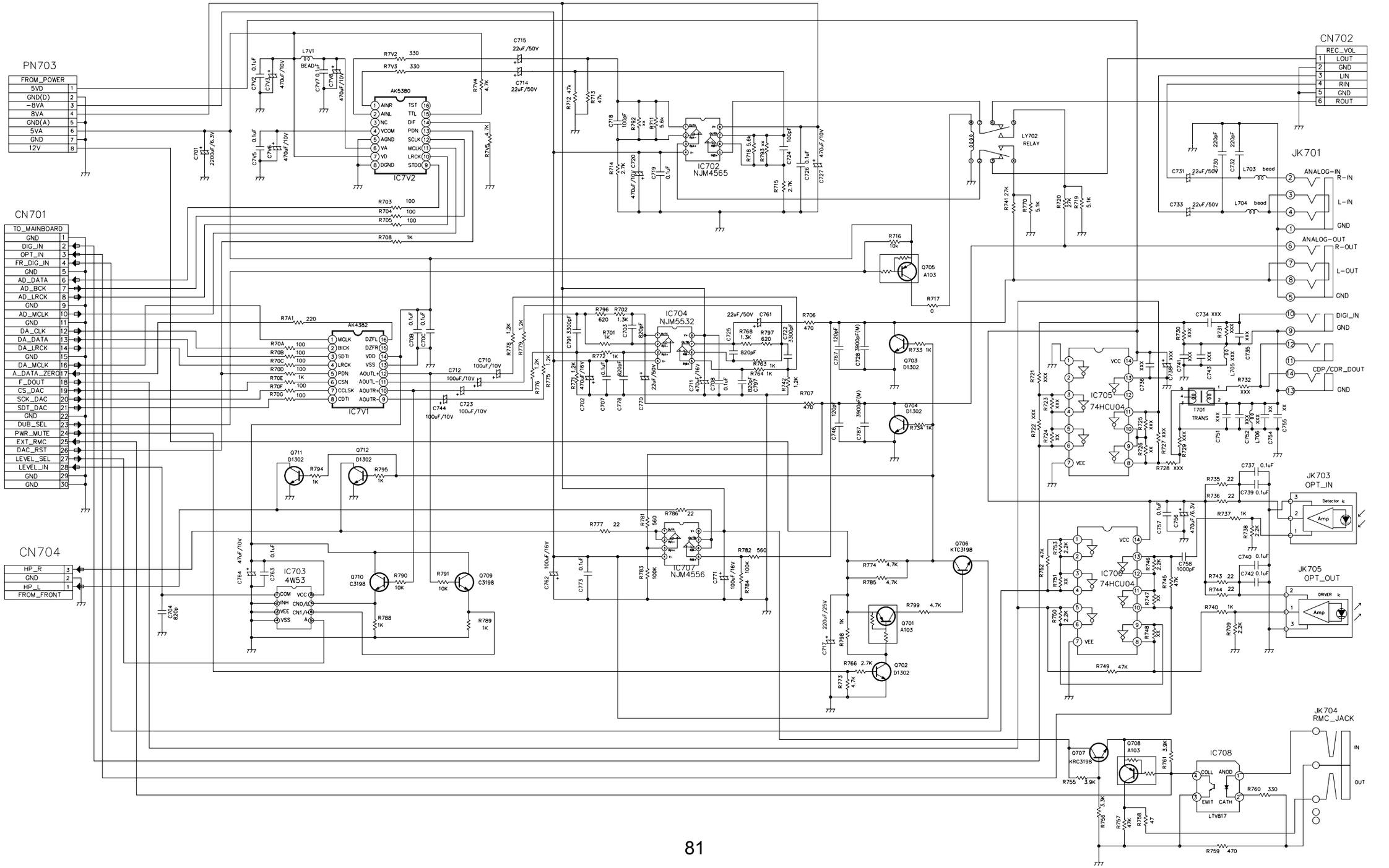


02.10.16 3854R10732A
CD-R RF

SCHEMATICS - CDR u-COM/DSP SECTION



SCHEMATICS - I/O CIRCUIT



SCHEMATICS - FRONT